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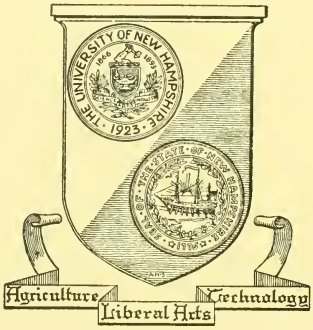

The University
of
New Hampshire

Bulletin 428 July, 1956

THE UNIVERSITY OF NEW HAMPSHIRE

AGRICULTURAL EXPERIMENT STATION

Department of Agricultural and Biological Chemistry

INSPECTION OF COMMERCIAL FEEDINGSTUFFS

Made for the

State Department of Agriculture

By H. A. DAVIS and V. F. STAAB

The University of New Hampshire
Durham, N. H.

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INSPECTION OF COMMERCIAL FEEDINGSTUFFS

Made for the
STATE DEPARTMENT OF AGRICULTURE

The Commissioner of Agriculture administers the New Hampshire Commercial Feedingstuffs Law. Every individual or firm expecting to sell feed products in New Hampshire should obtain a copy of the leaflet "New Hampshire Commercial Feed Law and Rules and Regulations." Requests for this leaflet and all inquiries concerning the law and the registration of feedingstuffs should be addressed to the attention of the Feed Control Supervisor, State House, Concord, New Hampshire.

In carrying out the provisions of the law during the fiscal year ending June 30, 1956, 702 official samples were collected under the direction of Honorable Perley L. Fitts, Commissioner of Agriculture. The samples which were collected by the Control Supervisor, Mr. George H. Laramie and the Assistant Control Supervisor, Mr. Harold Ayer, were submitted to this laboratory for analysis. In addition to the authors, credit should be given to Mrs. Fay Becker, Technician in Agricultural and Biological Chemistry for performing a part of the analyses reported in this bulletin.

THE LAW

The New Hampshire Commercial Feed Law, Chapter 226 of the Laws of the State of New Hampshire, conforms closely to the Uniform Feed Bill proposed by the Association of American Feed Control Officials. It is in the best interest of the purchaser of feedingstuffs as well as the feed manufacturer that he become familiar with the requirements of the law.

It is not the purpose of this bulletin to discuss the law in detail, but to point out certain requirements of the law. It is a report of the official analyses of the samples submitted.

Registration: Each brand of commercial feed offered for sale in the state must be registered with the Feed Control Supervisor. Forms are provided for that purpose by his office in Concord, New Hampshire.

The term "commercial feed" refers to "all materials which are distributed for use as feed for animals, other than man, and for wild birds kept in captivity, except (1) unmixed whole seeds, and meals made directly from the entire seeds, (2) unground hay, and (3) whole or ground straw, stover, silage, cobs and hulls when not mixed with other materials."

The feedingstuff is usually registered by the manufacturer or jobber, whether he is located within or outside the state. Feedingstuffs manufactured in other states are frequently handled by several middlemen before they reach the local distributor. Under the provisions of the law, if the manufacturer or jobber fails to make registration, the dealer is responsible. Dealers who purchase feed for resale should assure themselves that the brands they purchase are properly registered and the license fee paid; otherwise, they must assume that responsibility.

Labeling: The law requires that any commercial feed offered for sale, or sold in this state, shall furnish on each package a clearly printed statement certifying:

the number of net pounds in the package

the name and principal address of the person guaranteeing the commercial feed

the name or brand under which the commercial feed is sold

the guaranteed analysis, stating:
- the minimum percentage of crude protein
- the minimum percentage of crude fat
- the maximum percentage of crude fiber

the name of each ingredient contained in the feed

In special cases, as in mineral feeds and vitamin supplements, requirements as listed in the law must be met. In the case of bulk deliveries, a written or printed statement of the above information shall accompany delivery.

In order to secure greater uniformity in the labeling of feeds and in the statement of ingredients, the Association of American Feed Control Officials has adopted definitions of ingredients and standards. The Association has approved 20 official regulations which "should be adopted by State Officials insofar as their statutes will permit." There are no conflicts with the New Hampshire law in these regulations. A booklet containing these regulations, together with definitions of ingredients, official and tentative, as well as other instructive material, is for sale at the office of the Secretary of the Association of American Feed Control Officials, College Park, Maryland. If the suggestions and definitions presented in this booklet are followed by the manufacturers, a correct and accepted list of ingredients complying with the law will appear on the tag. Carelessness or indifference in proper labeling of the product offered for sale should create sales resistance on the part of the buyer. An alert purchaser will observe that correct labeling is a mark of a reliable manufacturer.

THE PURPOSE OF THE FEEDINGSTUFFS LAW

The chief purpose of the feedingstuffs law is to protect the consumer against the inferior products which doubtless would soon appear on the market if the trade were not under state control. The law is primarily a correct-labeling act. It must not be assumed by the purchaser that every brand which meets the manufacturer's guarantee is a high-grade feed. The Commercial Feed Law does not prevent the sale of a low-grade feed if it is properly licensed and tagged, and is offered for sale in compliance with the law. It would not be in the public interest to legislate against the sale of the lower-grade by-products. They can be fed profitably if bought at a price adjusted to their feeding value. The law does prevent an inferior feed being offered for sale as a high-grade product.

The dealer, in purchasing feed from the manufacturer, and the consumer in purchasing feed from the dealer, should make the specification

that the feed delivered must comply with the New Hampshire Commercial Feed Law. If the feed is not registered; if the protein, fat, and crude fiber are not guaranteed; and if the ingredients of which the feed is composed are not plainly stated on the bag or on a tag attached thereto, the purchaser is not protected by the law. He has no recourse under the commercial feed law if the feed he purchases is of inferior quality. If the buyer fails to assure himself that the legal requirements have been met, he accepts the feedingstuffs at his own risk.

The cost of a feedingstuffs inspection includes the drawing and analysis of samples, and the publication and distribution of the annual bulletin. The funds from which these costs are paid are accumulated from the license fee which the manufacturer is required to pay annually on each brand registered for sale in the state. A calculation based on the known costs of the inspection and the estimated retail value of the feedingstuffs sold annually, shows that the cost of the inspection is only a fraction of a cent per 100-pound bag.

TERMS USED IN REPORTING ANALYSIS

The terms used in reporting the chemical analysis of a feedingstuff as required by law, are briefly defined as follows: PROTEIN is a collective term for a considerable group of compounds, all of which contain nitrogen. Ingredients high in protein are usually more expensive than the other ingredients, therefore, protein is one of the most important nutrients determining the commercial value of a feedingstuff. The nutritional value of the proteins varies widely; therefore, a feedingstuff should contain protein from several sources to insure inclusion of all essential types. FAT is separated from the other components of a feedingstuff by extracting the moisture-free sample with anhydrous ether. In such ingredients as the cereals, the seed-meals, and animal products, the extract is nearly pure fat. A few ingredients such as alfalfa meal contain some other soluble material which is not fat. When sulphur is present, the "ether extract" or "fat found" is much too high, since sulphur is soluble in anhydrous ether. CRUDE FIBER is composed of cellulose and related compounds. Since crude fibre has little feeding value, the law requires that the maximum fiber be guaranteed rather than the minimum, as in protein and fat.

There are times when it is desirable to determine the moisture or water present in a feed. Any material in contact with the air will absorb or release some moisture depending upon the humidity and the kind of material. Since feeds are in contact with the air and since the moisture content varies somewhat with the moisture of the surroundings, it is the usual custom to report the analysis of a feed on the basis as it is used, rather than on a perfectly dry basis. The ash or total mineral matter content is of value at times and is obtained by burning a sample of the feed until all of the carbon is removed and only the minerals remain. The nitrogen-free extract contains the more soluble carbohydrates such as sugars and certain simple cellulose materials. The term carbohydrates includes the nitrogen-free extract plus the crude fiber. The nitrogen-free extract and carbohydrate content of a feed is determined by calculation after the analysis for certain other constituents. The usual analysis of a feed may

be summarized as follows. In using the following statement, all results must be expressed in terms of per cent.

100 minus the sum of "moisture" + "ash" + "protein" + "fat" + "crude fiber" equals the "nitrogen-free extract." Total carbohydrate equals "nitrogen-free extract" + "crude fiber."

The use of medicated feeds for specific purposes continues to increase. In certain cases it is recommended that a medicated feed be fed to poultry on a continuous basis as a means of preventing a chronic disease condition. In certain other cases, a special ration may be designed to control an outbreak and is fed only a short time. Feeds containing sulfaquinoxaline and nicarbazin have been analyzed for their drug content in this year's inspection. The use of drugs or growth stimulants in feeds is carefully controlled by the Federal Food and Drug Administration. Each use proposal is completely tested before it is permitted in products for the open market, to insure that there will be no injurious effects from its use. Continued research is making it possible to formulate feeds that will produce maximum results for the time and investment represented in a lot of animals, whether it be poultry, hogs or cattle.

OTHER COMMENTS

The use of "bulk delivery" in the handling of feed continues to increase. This method presents special problems in handling to the consumer and the recommendations of the Experiment Station and the manufacturer should be carefully considered. With reasonable care, bulk feed can be handled so that the product, as fed, is as uniform as bagged feed. Samples drawn at various points in the truck and at delivery points indicate that with the observance of proper precautions, a uniform product is supplied the customer.

It is not within the scope of this bulletin to make recommendations regarding the use of commercial feedingstuffs. The Department of Dairy Husbandry and the Department of Poultry Husbandry are continuously studying feeding problems. The following publications of these departments are free to residents of New Hampshire. Address your request to: Mail Service, University of New Hampshire, Durham, New Hampshire.

Ext. Bull.	67	Turkey Production in New Hampshire.
Ext. Bull.	114	Feeding Dairy Cattle.
Ext. Cir.	282	Dairy calves.
Ext. Cir.	312	Brooding and Rearing Chickens.
Sta. Bull.	401	Feed Standards for N. H. Broilers.
Sta. Bull.	411	Cobalt Deficiency in N. H. Cattle, Sheep and Goats.
Sta. Bull.	419	Effect of Texture on the Nutritive Value of Concentrates for Dairy Cattle.

While the word "feedingstuffs" does not appear in all the above titles, no publication is included which does not discuss some aspect of the use of feedingstuffs.

Inquiries occasionally are made regarding a method of calculating the protein, fat, or fiber content of a home-mixed feed. There are tables available, such as those in Morrison's book "Feeds and Feeding," which give the average chemical analysis of feed concentrates, roughage and silages. It

should be pointed out that the chemical analysis of a particular lot of an ingredient may be somewhat above or below the average figure shown in the table. This fact must be taken into consideration in fixing guarantees. The following example shows how the protein content of a feed mixture may be calculated.

Ingredients	pounds used	×	per cent protein in ingredient	=	lbs. protein furnished by ingredient
Ground Oats	200		12.0		24
Ground Corn	400		8.0		32
Gluten Feed	300		25.0		75
Wheat Bran	400		15.0		60
Linseed Oil Meal	100		34.0		34
Salt	10		.....		....
Total Mix	1410 lbs.		contains		225 lbs. protein

$$\text{The mixture contains } \frac{225}{1410} \times 100 = 15.95\% \text{ Protein.}$$

The percentage of fat or fiber may be calculated in a like manner by substituting the fat or fiber figures for those of the protein.

CONFORMITY TO GUARANTEES

The chemical analyses reported in this bulletin were made by methods approved by the Association of Official Agricultural Chemists.

A total of 702 samples were submitted for analysis. Seventy-one brands were sampled two or more times. Table I shows the percentage of samples analyzed each year since 1926 that did not conform to guarantee. The total percentage of samples failing to conform to the guarantee is 7.8% deficient in protein, 8.5% deficient in fat, and 4.0% carried an excess of fiber. In all except very rare cases, the deficiencies were quite small.

Table II lists the analyses of the official samples of ingredients and mixed feeds. Table III lists the analyses of the official samples of dog and cat foods. Both the dry and canned foods are included in this table.

Bold face type and underline of the figure is used to indicate a deficiency of more than 0.5 per cent below guarantee in protein, of more than 0.25 per cent below guarantee in fat and an excess of more than 1.00 per cent above the guarantee in crude fiber.

Eighteen brands of the cat and dog foods were not registered at the time of sampling. Sixty-six brands of the mixed feeds or ingredients were not registered at the time of sampling. They are identified in the tables showing the analyses.

Forty-three of the official samples were drawn from "bulk" lots of feed. They are identified in table II.

The samples containing sulfaquinoxaline and/or nicarbazin were analyzed for the drug content. No serious deficiencies were found.

It is expected that more work will be done in the determination of the drug content of medicated feeds in the future.

TABLE I

PERCENTAGE OF SAMPLES ANALYZED IN YEARS 1926-1956 NOT CONFORMING TO GUARANTEES

Year	Per cent below guarantee in Protein		Per cent below guarantee in Fat		Per cent high in Crude Fiber
	Less than 0.5 per cent	0.5 per cent or more	Less than 0.25 per cent	0.25 per cent or more	
1926	8.0	16.0	4.0	10.0	6.0
1927	8.3	16.4	5.8	13.6	5.9
1928	9.1	20.7	4.3	9.3	7.9
1929	9.5	20.2	2.8	9.3	6.5
1930	4.8	13.1	4.0	8.0	3.9
1931	1.8	7.2	5.9	9.7	5.3
1932	1.8	1.4	5.0	8.1	2.8
1933	1.3	3.6	7.5	9.8	3.6
1934	3.0	3.4	3.9	7.1	9.8
1935	2.4	3.0	4.2	8.5	9.9
1936	2.9	5.2	5.5	8.3	12.2
1937	2.8	4.2	3.0	6.0	11.0
1938	2.9	8.1	9.8	10.8	11.5
1939	1.9	3.3	6.8	9.3	8.7
1940	2.9	4.0	6.2	6.7	7.5
1941	1.1	2.6	4.7	6.7	5.6
1942	2.6	3.5	3.7	4.5	7.4
1943	3.7	2.7	7.7	8.6	7.4
1944	8.2	9.0	10.7	19.7	6.9
1945	2.1	6.1	2.9	7.5	7.1
1946	8.6	17.5	2.3	8.9	14.6
1947	4.1	10.2	1.7	4.0	24.7
1948	3.6	3.8	2.3	3.5	13.6
1949	3.5	5.8	2.7	2.8	7.2
1950	4.9	7.3	4.9	5.1	3.2
1951	4.4	7.5	2.7	4.9	4.0
1952	4.3	8.4	3.0	5.8	4.3
1953	4.3	12.7	3.4	6.8	4.4
1954	2.7	6.1	1.7	3.5	3.8
1955	2.8	7.5	2.4	4.5	5.9
1956	3.9	3.9	2.4	6.1	4.0

REQUEST BY INDIVIDUALS FOR THE ANALYSIS OF FEEDINGSTUFFS

In addition to the official samples of feedingstuffs submitted by the Feed Control Supervisors, the Agricultural Experiment Station each year analyzes some samples drawn by individuals to aid in solving a particular problem. Chemical analysis can aid in certain cases but it should not be expected to answer all questions. A close study of management practises will often answer many problems when the first thing to do seems to be to blame the feed for difficulties in growth or production of livestock. It is suggested that in the case of a difficulty involving feeding that you call in your County Agent, your veterinarian, or the fieldman of your feed supplier to consider your problem. They will then obtain the facts in the case and will determine whether an analysis of the feed will be of help or not.

If a feed sample is mailed or brought to the laboratory, it is essential that the sample drawn, about one pint put in a clean, tight container, *adequately represents* the large lot from which it is drawn and that *full information* concerning the case accompany the sample. If this is not done, it must be supplied before analysis can be made. Because of the cost of laboratory work and materials, the necessity for an analysis is decided upon the basis of information submitted and an opinion obtained as to whether or not an analysis is necessary in the particular case involved. Since this is a state experiment station, this service is available only to residents of the state and no charge is made for occasional work. Many questions that are raised may be satisfactorily answered by correspondence without laboratory work.

TABLE II — MIXED FEEDS AND INGREDIENTS

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Acme-Evans Co., Inc.							
Indianapolis, Ind.							
Acme Wheat Standard Middlings with screenings	Concord	14.00	16.5	3.00	4.9	9.50	7.5
Allied Mills, Inc.							
Chicago, Ill.							
Chlortetracycline (Aureomycin) & Nicarbazin Mixture in Wayne H.A.D. Krums	Manchester	20.00	21.6	3.00	3.3	4.00	2.9
Chlortetracycline (Aureomycin) & Sulfaquinoxaline Mixture in Wayne H.A.D. Krums	Manchester	20.00	21.0	3.00	3.0	4.00	3.0
Nicarbazin Mixture in Wayne Universal Grower	Manchester	16.00	18.3	2.50	4.0	4.50	4.2
3 nitro - 4 Hydroxyphenylarsonic acid in Wayne fattening pellets	W. Lebanon	18.00	19.7	3.00	3.8	6.00	4.4
3 nitro - 4 Hydroxyphenylarsonic Acid & Nicarbazin in Rocket Broiler Feed	Keene	20.00	21.4	3.00	3.1	4.00	3.4
3 nitro - 4 Hydroxyphenylarsonic Acid & Nicarbazin in Wayne Rocket Broiler Feed	Manchester	20.00	21.4	3.00	3.6	4.00	3.0
4 Nitrophenylarsonic acid (Histostat) in Universal Turkey Grower	Keene	18.00	18.8	2.50	3.6	6.00	4.6
Pure Corn and Oats Chop	W. Lebanon	9.00	10.8	3.50	4.5	10.00	7.2
Wayne Calf Supplement	W. Lebanon	24.00	24.8	3.00	3.3	8.00	6.8
Wayne Chick Feed	W. Lebanon	9.00	10.2	2.00	5.4	4.00	1.8
Wayne 16% Dairy	Keene	16.00	17.9	3.00	3.3	9.00	7.8
Wayne 20% Dairy	W. Lebanon	20.00	22.2	3.00	2.8	9.00	7.9
Wayne 26% Egg and Breeder	Manchester	26.00	26.9	2.50	3.2	7.00	5.0
Wayne Egg Mash (Krums)	Keene	20.00	21.5	3.00	3.3	5.50	5.0
Wayne Fitting Ration	Manchester	13.00	15.7	3.00	4.2	8.50	7.2
Wayne Growing Mash	Keene	20.00	21.2	2.50	3.5	6.50	5.2
Wayne Horse Feed	Keene	9.00	9.4	2.50	3.4	12.00	8.0
Wayne Mash Layer	Keene	20.00	20.0	3.00	3.4	7.00	7.5
Wayne Pork Maker	Manchester	14.00	15.9	3.00	4.3	8.00	6.8
Wayne Poultry Worming Mixture	Manchester	20.00	22.5	3.00	3.5	5.00	3.1
Wayne Rabbit Ration	Manchester	17.00	17.2	2.00	3.3	15.00	11.5
Wayne Scratch Feed	Keene	9.00	9.1	2.00	2.1	5.00	1.2
Wayne Sugarine 16% Dairy	W. Lebanon	16.00	17.1	2.50	3.4	11.00	12.8
Wayne Sweet Bulky Feed	W. Lebanon	12.00	13.0	1.50	2.1	15.00	13.5
Wayne Tail Curler	W. Lebanon	18.00	18.8	3.00	3.5	5.00	3.8
Wayne Test Cow Ration	Keene	16.00	18.9	4.00	3.5	9.00	7.2
Wayne Turkey Fitting Ration	W. Lebanon	11.00	12.6	2.50	3.8	9.00	6.9
Wayne Turkey Growing Mash	Manchester	20.00	19.8	2.50	3.7	7.00	5.2
Wayne Universal Breeder	Manchester	16.00	16.7	2.50	4.1	4.50	4.5
Wayne Universal Dairy Feed	W. Lebanon	14.00	15.3	3.00	3.4	9.00	8.2
Wayne Universal Egg	Manchester	16.00	17.8	2.50	4.0	4.50	4.3
Wayne Universal Egg (Krums)	Keene	16.00	18.2	2.50	3.7	4.50	4.1
Wayne Universal Grower	Keene	16.00	17.8	2.50	3.8	4.50	4.4
Wayne Universal Turkey Grower	Keene	18.00	19.8	2.50	3.5	6.00	5.6

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
American Crystal Sugar Co. Denver, Colo.							
Molasses Dried Beet Pulp	Bow	8.00	9.3	0.30	0.6	20.00	17.7
Archer-Daniels-Midland Co. Minn., Minn.							
Archer Quality 44% Protein Solvent Extracted Soybean Oil Meal	Bow	44.00	47.2	0.50	0.7	7.00	5.8
B & W Canning Co., Inc. Groveland, Fla.							
+B n W Dried Citrus Pulp	Concord	6.00	5.5	5.00	5.0	12.00	9.5
+B n W Dried Citrus Pulp	Concord	5.00	5.8	3.00	2.1	12.00	11.0
E. W. Bailey & Co., Inc. Montpelier, Vt.							
+Bailey's Pennant Blackhead Prevention Mixture in Pennant Turkey Grower	N. Haverhill	20.00	21.6	3.50	3.5	7.00	6.9
Bailey's Pennant Brand Calf Ration	Concord	15.00	15.8	3.00	3.0	7.00	5.9
+Bailey's Pennant Brand Calf Ration	Colebrook	15.00	15.8	3.00	3.0	7.00	6.5
Bailey's Pennant Brand Complete Egg Ration	Concord	16.00	16.7	3.50	3.9	7.00	5.4
Bailey's Pennant Brand 18% Dairy Ration	Concord	18.00	19.3	4.25	4.3	9.00	6.9
Bailey's Pennant Brand 16% Dairy Ration Coarse	Concord	16.00	17.8	3.00	3.3	10.00	7.2
Bailey's Pennant Brand Fitting Ration (Coarse)	Concord	14.00	14.5	3.00	4.4	11.00	7.6
Bailey's Pennant Brand Pig Grower	Concord	15.00	15.8	3.50	4.7	6.50	5.2
+Bailey's Pennant Brand Poultry Fitting Ration	Concord	12.00	14.2	3.00	3.1	7.00	5.5
Bailey's Pennant Brand Special 16% Dairy Ration	Lebanon	16.00	16.4	3.25	3.5	10.00	8.1
Bailey's Pennant Brand Special 18% Dairy Ration	Concord	18.00	19.4	3.00	3.0	9.00	7.1
+Bailey's Pennant Brand Turkey Grower	Concord	20.00	20.1	3.50	3.2	7.00	6.4
Bailey's Pennant 20% Dairy Ration	Colebrook	20.00	22.9	3.00	3.0	9.00	5.8
Bailey's Pennant Feeds Special 12% Pasture Ration	Concord	12.00	13.9	3.50	4.6	10.00	6.7
Bailey's Pennant Growing Mash	N. Haverhill	18.00	18.6	3.50	3.5	7.00	6.4
Bailey's Pennant Horse Feed	Colebrook	10.00	12.8	3.00	3.5	9.00	6.7
Bailey's Pennant Laying Mash	Colebrook	20.00	21.3	3.50	3.5	7.00	6.3
Bailey's Pennant Mo-Bulk	Colebrook	10.50	12.7	1.00	1.9	17.00	13.7
Bailey's Pennant Pig Feed	Colebrook	17.00	16.7	3.50	4.0	7.00	5.6
Bailey's Pennant Provender	Colebrook	10.00	11.0	3.50	4.1	8.00	6.4
Bailey's Pennant Sulfaquinoxaline Mixture in Pennant Chick Starter	Colebrook	20.00	21.1	4.50	3.8	5.50	4.7
Bailey's Pennant 32% Supplement	Colebrook	32.00	32.1	3.00	2.0	10.00	6.1
Bailey's Pennant Yankee 16 Dairy	N. Haverhill	16.00	16.1	3.00	3.3	15.00	8.3
+Oxytetracycline Mixture in Super Ettes	Concord	20.00	20.2	3.50	3.1	4.50	4.9

* Protein and fat not less than, crude fiber not more than.
+ Unregistered when sampled.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Beacon Milling Co.							
Cayuga, N. Y.							
Auburn "14" Pellets	Nashua	14.00	15.7	3.00	4.1	10.00	5.9
Beacon "16"	Manchester	16.00	17.2	3.50	3.5	9.00	7.4
Beacon Balancer Pellets	Nashua	20.00	20.6	3.00	3.7	6.00	4.2
Beacon Breeder All Mash	Manchester	17.00	18.4	4.75	5.4	5.00	3.7
Beacon Broiler Finisher	Nashua	18.00	20.0	4.00	5.3	4.75	3.6
Beacon Chlortetracycline Mix	Nashua	20.00	21.4	4.00	5.3	5.75	4.5
Beacon "22" Egg Mash	Nashua	22.00	22.7	4.75	6.2	5.75	4.1
+Beacon Goat Ration	Manchester	16.00	17.4	3.00	3.6	10.00	7.1
Beacon Grower All Mash	Nashua	16.00	16.7	4.50	5.8	6.00	4.8
Beacon "18" Growing Mash	Nashua	18.00	19.6	4.50	5.3	6.25	5.0
Beacon Market Egg All Mash	Nashua	17.00	18.0	4.75	5.4	5.00	3.5
Beacon Nicarbazin Mix in Beacon Complete Starter	Nashua	22.00	23.5	4.00	5.7	5.50	3.7
Beacon Poultry Fitting	Nashua	11.00	11.9	3.00	3.2	7.50	4.7
Beacon Sodium Propionate in Dairy Fitting	Manchester	14.00	15.6	3.00	3.6	9.00	7.6
Beacon Special Scratch Grain	Nashua	9.00	9.6	2.00	2.9	5.00	3.4
Beacon "16" Test Cow Ration	Weare	16.00	16.2	4.00	4.2	9.00	7.6
Beacon "18" Test Cow Ration	Weare	18.00	18.0	4.00	4.0	9.00	7.9
Beacon Turkey Finisher All Mash	Nashua	18.00	19.9	4.00	4.6	5.50	4.4
Beacon "15" with Pellets	Manchester	15.00	15.2	4.00	4.6	9.00	7.7
Be-Co-Lass	Manchester	11.00	11.9	2.00	2.8	13.00	11.0
The Borden Company							
New York, New York							
Flaydry — Poultry Feed Supplement	Bow	24.00	32.7	2.00	2.7	6.50	5.2
The Buckeye Cotton Oil Co.							
Cincinnati, Ohio							
Buckeye 44% Protein Solvent Extracted soybean Oil Meal	Concord	44.00	44.5	0.50	0.6	7.00	7.0
Buckeye 44% Protein Solvent Extracted soybean Oil Meal	Claremont	44.00	48.3	0.50	0.6	7.00	5.3
Buckeye Sugars, Inc.							
Ottawa, Ohio							
+Ottawa Dehydrated 17% Alfalfa Meal	Colebrook	17.00	18.9	1.25	2.2	27.00	23.4
Calvert Milling Co.							
Hoytville, Ohio							
+No. 1. Medium Ground Alfalfa Meal Suncured	Colebrook	13.00	13.9	1.50	1.6	33.00	26.3
The A. B. Caple Co.							
Toledo, Ohio							
Alfalfa Meal	Keene	13.00	13.0	1.00	1.4	33.00	33.0

* Protein and fat not less than, crude fiber not more than.

\+ Unregistered when sampled.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Central Mills **Dudbridge, Ohio**							
Cent Green Dehydrated Alfalfa Meal	Potter Place	17.00	18.2	1.50	2.5	27.00	28.6
S. J. Cherry & Sons, Ltd. **Preston, Canada**							
Wheat Bran	Manchester	14.00	15.2	3.50	4.9	11.50	9.6
Wheat Shorts	Keene	15.00	15.7	5.00	5.2	8.00	6.9
Citrus Feed Co. **Lakeland, Florida**							
Fosgate's Ace High All Sweet Dried Citrus Pulp	Manchester	6.00	6.2	3.00	1.8	11.00	10.8
Clinton Foods, Inc. **Clinton, Iowa**							
Clinton 21% Protein Corn Gluten Feed	Colebrook	21.00	22.8	1.00	1.9	10.00	8.7
Commercial Solvents Corp. **Peoria, Ill.**							
+B-Y 100 Dried Grain & Cane Syrup Fermentation Solubles	Manchester	25.00	27.1	1.00	2.5	10.00	10.0
Consolidated Products Co. **Danville, Ill.**							
Kaff-A Calf Starter	Tilton	22.00	22.2	4.00	4.9	2.00	1.0
Consolidated Rendering Co. **Boston, Mass.**							
**Corenco 45% Meat & Bone Scrap	Manchester	45.00	46.8	6.00	9.4	.....	.....
Corenco 45% Meat & Bone Scrap	Concord	45.00	47.4	6.00	10.1	.....	.....
Corenco 45% Meat & Bone Scrap	Keene	45.00	44.4	6.00	8.9	.....	.....
Corenco 45% Meat & Bone Scrap	Manchester	45.00	47.1	6.00	8.3	.....	.....
Corenco 45% Meat & Bone Scrap	Bow	45.00	44.5	6.00	11.4	.....	.....
Corenco 45% Meat & Bone Scrap	Potter Place	45.00	46.5	6.00	7.4	.....	.....
Corenco 45% Meat & Bone Scrap	Suncook	45.00	46.3	6.00	7.6	.....	.....
Copeland Flour Mills **Midland, Canada**							
Dandy Wheat Bran	Keene	14.00	14.6	3.50	4.6	11.50	10.8
Corn Products Refining Co. **New York, N. Y.**							
Diamond Brand Corn Gluten Meal	Keene	41.00	42.5	1.00	2.7	6.00	3.4
Chas. M. Cox Co. **Boston, Mass.**							
Amino-Nitrothiazole Mixture (Enheptin) in Wirthmore Turkey Fattening Ration	Tilton	16.00	17.8	3.50	4.1	6.50	4.7
Chlortetracycline (Aureomycin) Mixture in Wirthmore Quickies	Greenville	20.00	21.6	3.50	4.1	4.50	3.8

* Protein and fat not less than, crude fiber not more than.
\+ Unregistered when sampled.
** Bulk.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Chas. M. Cox Co. (Continued)							
Chlortetracycline (Aureomycin) Nicarbazin Mixture in Wirthmore Improved High Energy Starter and Broiler Ration	Greenville	20.00	22.7	4.00	5.4	4.00	3.1
Chlortetracycline Mixture in Wirthmore Quickies	Charlestown	20.00	21.8	3.50	4.2	4.50	3.5
Chlortetracycline & Nicarbazin in Wirthmore Improved Hi-Ener-G Starter & Broiler Ration	Manchester	20.00	21.3	4.00	5.6	4.00	3.4
Nicarbazin Mixture in Wirthmore Improved Hi-Ener-G Starter & Broiler Ration	Plymouth	20.00	21.4	4.00	3.4	4.00	3.3
Nicarbazin Mixture in Wirthmore Improved Hi-Ener-G Starter & Broiler Ration	Portsmouth	20.00	21.4	4.00	4.8	4.00	2.9
Nicarbazin-Sodium Arsanilate Mixture in Wirthmore Improved High Energy Starter & Broiler Ration	Greenville	20.00	22.5	4.00	5.5	4.00	3.2
Sulfaquinoxaline in Wirthmore Complete Chick Starter	Manchester	20.00	20.8	3.50	4.2	5.00	4.0
Wirthmore Calf Starter Meal	Potter Place	22.00	23.8	3.50	3.2	7.00	6.1
Wirthmore Challenger Coarse 14 Dairy Ration	Jaffrey	14.00	14.4	3.00	3.6	12.00	8.8
Wirthmore Challenger Coarse 14 Dairy Ration	Ctr. Ossipee	14.00	15.7	3.00	3.9	12.00	8.7
Wirthmore Complete Egg Ration	Jaffrey	15.00	14.6	3.50	4.6	6.00	4.5
Wirthmore Complete Egg Ration	Ctr. Ossippe	15.00	16.4	3.50	4.6	6.00	4.4
Wirthmore Complete Growing Ration	Jaffrey	15.00	15.3	3.50	4.5	6.00	4.7
Wirthmore 14 Dairy Fitting Ration	Lancaster	14.00	15.9	3.50	4.3	9.00	6.4
Wirthmore 14 Dairy Fitting Ration	Manchester	14.00	16.5	3.50	3.8	9.00	6.5
**Wirthmore 16 Dairy Ration	Claremont	16.00	19.3	3.50	3.9	9.00	7.4
**Wirthmore 16 Dairy Ration	Claremont	16.00	19.4	3.50	3.8	9.00	7.2
Wirthmore 20 Dairy Ration	Lancaster	20.00	18.8	3.50	3.6	9.00	6.9
Wirthmore 20 Dairy Ration	Ctr. Ossipee	20.00	21.9	3.50	3.8	9.00	7.7
Wirthmore 16 Dairy Record Ration	Plymouth	16.00	17.6	3.50	3.9	9.00	7.5
Wirthmore 32 Dairy Supplement	Lancaster	32.00	35.8	3.00	3.3	8.00	7.0
Wirthmore Fattening Pellets	Manchester	17.50	17.7	4.00	4.1	4.50	3.7
Wirthmore Fodder Greens	Lancaster	9.00	10.2	2.00	2.0	18.00	17.2
Wirthmore Green Mountain 16 Dairy Ration	Manchester	16.00	17.2	3.00	3.0	9.00	8.2
Wirthmore Hi-Energ 16	Charlestown	16.00	17.2	3.50	4.3	4.50	3.8
**Wirthmore Hi-Energ 16	Claremont	16.00	18.2	3.50	4.2	4.50	3.6
**Wirthmore Hi-Energ 16	Charlestown	16.00	17.7	3.50	3.9	4.50	3.3
Wirthmore Hi-Ener-G Breeder	Manchester	16.00	16.9	3.50	3.7	4.50	3.4
Wirthmore Hi-Ener-G Layer	Plymouth	16.00	17.1	3.50	4.5	4.50	3.5
Wirthmore Hi-Gro-Lay	Manchester	20.00	20.6	3.50	3.6	5.50	4.7
Wirthmore Hog Grower	Tilton	15.00	16.9	4.00	4.2	6.00	5.5

* Protein and fat not less than, crude fiber not more than.
** Bulk.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Chas. M. Cox Co. (Continued)							
Wirthmore Horse Feed	Ctr. Ossipee	10.00	12.9	3.25	3.8	9.00	7.8
Wirthmore Laying Mash	Jaffrey	20.00	21.3	3.50	4.4	5.50	4.3
Wirthmore Laying Mash	Concord	20.00	21.6	3.50	4.4	5.50	4.6
+Wirthmore Laying Mash	Charlestown	20.00	20.1	3.50	4.6	5.50	4.5
Wirthmore Mink Food	Tilton	23.00	24.7	5.00	6.5	5.00	3.7
Wirthmore P. N. Mixture	Manchester	17.50	17.9	3.50	4.5	4.50	3.5
Wirthmore Pig & Sow Feed	Plymouth	17.00	18.8	3.50	3.6	8.00	6.5
Wirthmore Pig & Sow Feed	Portsmouth	17.00	18.6	3.50	4.1	8.00	5.8
Wirthmore Poultry Fitting	Portsmouth	11.50	12.4	2.50	2.9	7.00	5.6
Wirthmore Production Scratch	Plymouth	9.50	9.5	2.50	3.3	4.00	3.3
Wirthmore Production Scratch	Tilton	9.50	10.0	2.50	3.2	4.00	3.4
Wirthmore Rabbit Pellets	Portsmouth	17.00	18.6	3.50	5.0	12.00	6.1
**Wirthmore 16 Record Ration	Charlestown	16.00	18.7	3.50	3.7	8.50	7.6
Wirthmore Special Scratch with Cracked Corn	Portsmouth	9.50	11.2	2.50	3.3	4.00	4.0
Wirthmore Sulfaquinoxaline Mixture in a Poultry Mash Base	Charlestown	20.00	23.7	4.00	5.5	4.00	3.1
Wirthmore Super Pellets	Plymouth	20.00	21.7	3.50	4.6	5.50	4.9
+Wirthmore Turkey Fattening Ration	Portsmouth	16.00	19.4	3.50	4.6	6.50	4.6
Wirthmore Twin-Mix Calf Ration	Lancaster	17.00	18.7	3.00	4.0	8.00	6.7
Delaware Mills, Inc. **Deposit, N. Y.**							
Delaware Calf Starter (with pellets)	Farmington	19.00	19.5	3.00	3.1	7.00	7.5
Delaware Chlortetracycine Mixture (Delamycin)	Farmington	20.00	22.8	3.00	3.5	5.00	4.0
Delaware Complete Layer	Farmington	15.00	17.6	2.50	5.4	6.50	5.1
Delaware Fattening Mash	Farmington	15.00	19.6	3.00	4.1	6.00	4.7
Delaware Fitting Ration	Farmington	14.00	17.4	3.00	3.6	11.00	8.5
Delaware Flushing Mash	Farmington	11.00	12.8	2.00	3.4	5.00	4.9
Delaware H-E Layer	Farmington	16.00	18.0	3.00	3.8	4.50	3.8
Delaware Horse Feed	Farmington	9.00	10.3	2.00	3.2	11.00	7.9
Delaware Nicarbazin in Broiler Mash	Farmington	21.00	22.4	3.00	3.4	4.50	3.8
Delaware Nicarbazin & Chlortetracycline in Broiler Mash	Farmington	21.00	22.8	3.00	3.5	4.50	4.0
Delaware Nicarbazin & Chlortetracycline in Delaware Broiler Mash	Farmington	21.00	23.6	3.00	3.3	4.50	3.0
Delaware Pig & Hog Feed	Farmington	15.00	15.5	3.00	4.6	6.50	4.0
Delaware Poultry Fitting Ration	Farmington	10.00	10.1	2.50	3.0	8.00	7.7
Deleware Rabbit Pellets	Farmington	14.00	17.3	2.00	3.6	15.00	10.6
Deleware Rabbit Pellets	Farmington	14.00	17.2	2.00	3.6	15.00	11.5
Delaware Sulfaquinoxaline Mixture in Broiler Mash	Farmington	21.00	21.5	3.00	3.6	4.50	4.4
+Delaware Turkey Developer	Farmington	20.00	24.1	2.50	3.9	6.50	5.2
+Nicarbazin Mixture in Delaware Broiler Mash	Farmington	21.00	23.1	3.00	4.1	4.50	3.9

* Protein and fat not less than, crude fiber not more than.

** Bulk.

+ Unregistered when sampled.

TABLE II — MIXED FEEDS AND INGREDIENTS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Delphos Grain & Soya Products Co. **Delphos, Ohio**							
44% Protein Soybean Oil Meal (Solvent Extracted)	Manchester	44.00	45.3	0.50	0.8	7.00	6.4
Dietrich & Gambrill, Inc. **Frederick, Md.**							
+D & G Utility Scratch Feed	Laconia	9.00	9.9	2.50	3.1	5.00	3.5
Dougherty Feed Co., Inc. **Louisville, Ohio**							
Palmo Midds	Bow	15.00	15.8	8.00	9.0	8.00	8.0
Dover Milling Co. **Dover, Ohio**							
+Pure Wheat Bran	Concord	14.00	13.5	3.00	3.5	10.00	9.7
Dwight Hamlin Co. **Pittsburgh, Pa.**							
+Hamlins Dried Brewers Grains	Colebrook	24.00	26.9	6.00	6.1	18.00	14.0
Eastern States Farmers Exchange **W. Springfield, Mass.**							
Eastern States All Mash Breeder	Dover	15.50	18.9	4.00	5.7	4.00	3.2
Eastern States Calf Starter	Concord	20.00	23.3	3.00	3.5	6.00	5.0
Eastern States Calf Starter	Laconia	20.00	23.7	3.00	3.0	6.00	4.5
Eastern States Cashmaker (All Mash)	Dover	16.00	16.9	3.50	4.1	4.00	3.5
Eastern States Champion	Dover	14.00	16.4	2.50	2.6	7.00	5.0
Eastern States Chlortetracycline Mixture in Sentinel	Concord	20.00	22.3	4.00	4.8	4.00	3.1
Eastern States Class Leader	Dover	14.00	15.7	3.50	4.1	9.00	7.6
Eastern States Darimore	Milford	16.00	18.8	2.00	3.2	12.00	10.1
Eastern States Fulpail	Dover	20.00	19.4	3.00	3.9	9.00	7.0
Eastern States Furazolidane Mixture in Defender	Concord	20.00	22.7	3.00	3.8	5.00	3.8
Eastern States Matchmaker	Concord	22.00	22.7	3.50	5.0	5.00	4.4
Eastern States Milk Saver	Concord	24.00	27.1	1.00	2.0	1.00	0.6
Eastern States Milkmore	Dover	16.00	18.1	3.50	3.9	9.00	7.8
Eastern States Nicarbazin Mixture in Finisher	Concord	16.50	17.9	4.00	4.5	4.00	3.1
Eastern States Nicarbazin Mixture in Finisher	Milford	16.50	18.0	4.00	4.5	4.00	3.0
Eastern States Nitrophenide Mixture in Cashmaker W N	Claremont	16.00	17.8	3.50	4.9	4.00	3.4
Eastern States Nitrophenide Mixture in Pacemaker	Concord	20.00	21.2	5.00	5.7	4.50	3.6
Eastern States Pig Primer	Concord	16.00	17.4	3.00	3.6	5.50	4.2
Eastern States Pork Builder	Milford	14.00	15.3	3.00	3.6	4.00	3.0
Eastern States Rabbetts	Dover	18.00	20.0	2.00	3.3	16.00	12.8
Eastern States Scratch Grain	Claremont	9.00	10.4	2.00	4.1	4.00	3.7
Eastern States Scratch Grain	Milford	9.00	10.4	2.00	3.8	4.00	3.3

* Protein and fat not less than, crude fiber not more than.
+ Unregistered when sampled.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Eastern States Farmers Exchange (Continued)							
Eastern States Sulfaquinoxaline Chlortetracycline Mixture in Minuteman (Pellets)	Dover	20.00	20.9	4.00	5.3	4.50	3.2
Eastern States Sulfaquinoxaline Mixture in Turkey Starter (Pellets)	Dover	28.00	29.0	3.00	4.1	4.50	3.4
Eastern States Sweepstakes	Dover	16.00	17.2	3.00	3.1	8.00	6.1
Eastern States Turkey Finisher	Concord	16.50	19.6	4.00	4.6	4.00	3.3
Eastern States Turkey Grower	Dover	20.00	21.3	3.00	4.0	4.50	3.6
B. A. Eckhart Milling Co. **Chicago, Ill.**							
Ecko Pure Wheat Bran	Portsmouth	14.00	16.1	3.50	4.1	12.00	10.1
+Standard Wheat Middlings/G W S	Concord	15.00	16.7	4.00	4.2	9.50	7.3
Elm City Grain Co. **Keene, N. H.**							
Elm Tree All Mash Grower	Keene	16.00	16.0	3.50	3.9	5.50	4.7
Elm Tree All Mash Grower	Keene	16.00	17.3	3.50	4.1	5.50	5.0
Elm Tree All Mash Laying	Keene	16.00	16.0	3.50	4.0	7.00	5.8
Elm Tree Dairy Feed	Keene	18.00	18.1	3.00	3.1	10.00	9.0
Elm Tree Dairy Feed	Keene	18.00	19.2	3.00	2.7	10.00	8.3
+Elm Tree 14% Dairy Feed	Keene	14.00	14.7	3.00	3.1	8.00	7.6
Elm Tree 14% Fitting Ration	Keene	14.00	14.2	3.00	3.2	10.00	9.3
Elm Tree 14% Fitting Ration	Keene	14.00	15.6	3.00	3.0	10.00	7.4
**Elm Tree Hi-Eff Grower	Keene	15.00	15.5	3.50	4.2	5.50	5.3
**Elm Tree Hi-Eff Grower	E. Jaffrey	15.00	16.5	3.50	4.2	5.50	4.8
Elm Tree Hi-Eff Layer	Keene	15.00	16.8	3.50	4.1	5.50	5.2
Elm Tree Hi-Lo Starter & Broiler	Keene	20.00	20.0	3.50	3.8	4.50	4.5
Elm Tree Laying Mash	Keene	20.00	22.6	3.50	3.7	7.50	6.5
Elm Tree Markitip 16% Dairy Feed	Keene	16.00	20.3	2.50	2.8	8.50	9.2
**Elm Tree Markitip 16% Dairy Feed	Marlboro	16.00	16.7	2.50	2.6	8.50	8.4
Elm Tree Markitip 16% Dairy Feed	Keene	16.00	17.0	2.50	2.8	8.50	7.6
Elm Tree Pig & Hog Feed	Keene	14.00	15.5	3.50	3.5	8.00	5.6
Elm Tree Provender	Keene	10.00	9.5	3.50	3.1	8.00	7.4
Elmore Milling Co. **Oneonta, N. Y.**							
Elmore Breeder Mash	Derry	20.00	20.1	3.00	3.5	6.00	5.8
Elmore Breeder Mash	Derry	20.00	22.1	3.00	4.1	6.00	4.7
Elmore Flitting Ration 14%	Derry	14.00	17.1	4.00	4.6	8.00	8.0
+Elmore Nicarbazin Mixture in Elmore Super Broiler Ration	Derry	20.00	22.8	3.00	3.5	4.00	4.0
+Elmore Poultry Fitting Ration	Derry	12.00	12.2	3.00	3.2	10.00	6.7
Elmore Turkey (Fattener)	Derry	16.00	19.1	3.00	3.6	6.00	5.2

* Protein and fat not less than, crude fiber not more than.
+ Unregistered when sampled.
** Bulk.

Brand / Manufacturer	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Erie Alfalfa Mills, Inc.							
Erie, Michigan							
+Erie Brand Dehydrated Alfalfa Meal	Manchester	17.00	14.9	1.50	2.5	27.00	28.2
John W. Eshelman & Sons							
Lancaster, Pa.							
Eshelman Pennsy Laying Mash (Pelleted)	Keene	20.00	20.8	3.50	3.7	8.00	5.6
Eshelman Red Rose Breeder Mash	Keene	20.00	21.8	3.50	3.7	5.50	5.7
Eshelman Red Rose Calf Grower	Keene	14.00	16.0	3.00	3.8	8.50	7.9
Eshelman Red Rose Complete Laying Ration	Keene	16.00	20.7	3.50	3.7	4.50	5.7
Eshelman Red Rose Fitting Ration	Keene	12.00	15.9	3.50	3.5	7.00	6.6
Eshelman Red Rose Goat Ration	Keene	15.00	16.8	3.00	3.5	9.00	7.3
Eshelman Red Rose Horse Feed	Keene	9.00	10.7	3.00	3.2	10.00	6.5
Eshelman Red Rose Laying Mash (Pelleted)	Keene	20.00	21.0	3.50	3.7	5.50	5.7
Eshelman Red Rose Milk Replacer	Keene	22.00	24.2	1.00	1.2	1.00	0.9
+Eshelman Red Rose Pigeon Feed	Keene	12.00	15.0	3.00	3.6	4.00	3.4
Eshelman Red Rose Rabbit Feed (Pellets)	Keene	18.00	19.9	3.00	3.8	12.00	10.2
Eshelman S-O-S	Keene	11.00	13.9	2.00	2.8	16.00	16.3
Farm Bureau Assn.							
Waltham, Mass.							
Farm Bureau Complete Developer Mash	Milford	16.00	16.6	3.50	4.8	4.50	3.9
Farm Bureau Complete Market Egg Mash	Milford	16.00	16.2	3.50	4.5	4.50	4.0
Farm Bureau Dairy 20%	Milford	20.00	21.4	3.50	3.4	8.00	6.8
Farm Bureau 16% Dairy Ration	Milford	16.00	16.1	3.50	3.6	8.50	6.7
Farm Bureau Fitting Ration	Milford	12.00	12.3	3.50	3.9	8.00	6.2
Farm Bureau Maternity Ration	Milford	12.00	13.8	3.00	3.5	12.00	8.9
Sulfaquinoxaline in Farm Bureau Chick Starter Mash	Milford	20.00	20.1	4.00	3.8	4.50	4.1
Farm Bureau Coop. Assn.							
Columbus, Ohio							
+Dehydrated Alfalfa Meal	Manchester	17.00	17.8	1.50	2.4	27.00	29.3
Florida Citrus Canners Coop.							
Lake Wales, Fla.							
Lake Wales Brand Citrus Pulp	Colebrook	6.00	6.4	3.00	4.7	16.00	12.0
Fowler Brothers							
Suncook, N. H.							
Nicarbazin Mixture in Sun Valley Hi-Energy Starter & Broiler Mash	Suncook	20.00	20.8	3.00	4.2	4.00	2.8
Sun Valley Dairy Ration	Suncook	16.00	16.4	2.50	2.8	10.00	6.0
Sun Valley Hi-Energy All Mash Breeder	Suncook	15.00	22.0	3.00	3.7	4.50	4.2

* Protein and fat not less than, crude fiber not more than.
+ Unregistered when sampled.

TABLE II — MIXED FEEDS AND INGREDIENTS — Continued

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Fruen Milling Co.							
Minneapolic, Minn.							
+Fruen's Mixers' Pulverized White Oats	Manchester	10.00	10.2	2.50	2.6	15.00	14.0
Fruit Industries							
Bradenton, Fla.							
+Tropicana's Sweetest Dried Citrus Pulp	Concord	6.00	5.5	2.75	3.4	15.00	11.1
General Mills, Inc.							
Minneapolis, Minn.							
Antibiotic & -Furazolidone Mixture in Poultry Surelift	Exeter	20.00	22.2	2.50	3.7	7.00	4.3
Ben Hur Wheat Bran and Ground Wheat Screening not Exceeding Mill Run	Salem Depot	14.00	14.0	3.00	3.7	12.00	9.8
Cereal Tailings	Suncook	9.50	8.9	3.00	3.5	3.50	0.8
Gold Medal Scratch Feed	Laconia	9.50	10.7	2.50	2.6	5.00	2.8
Gold Medal 20% Super Dairy Feed	Exeter	20.00	20.0	3.50	4.1	10.00	8.4
Larro Scratch Grains	Exeter	9.00	10.3	2.00	3.1	5.00	4.4
Larro Surecalf	Exeter	20.00	20.1	2.50	3.5	9.00	7.3
Larro Surechamp	Laconia	24.00	25.0	5.00	6.6	6.00	3.8
Larro Surelay "H-E" (Crumbled)	Exeter	20.00	21.6	2.50	3.4	7.00	5.6
Larro Suremilk 14	Laconia	14.00	18.5	2.75	3.1	9.50	7.9
Larro Suremilk 16	Laconia	16.00	16.5	2.75	3.3	9.50	7.7
Larro Suremilk 20	Lancaster	20.00	22.2	2.75	2.8	9.50	7.8
Larro Suremilk 16 Pelleted	Exeter	16.00	17.2	2.50	3.8	12.00	7.7
Larro Worming Feed	Exeter	20.00	21.4	2.50	4.0	7.00	4.6
Nicarbazin with Arsonic Growth Stimulant in Gold Medal Hi-Efficiency Broiler Mash	Exeter	20.00	20.2	3.00	4.4	4.00	3.6
Nicarbazin with Arsonic Growth Stimulant in Surebroiler Starter (Pelleted)	Exeter	20.00	21.0	2.50	3.9	5.00	4.0
Nitrofurazone Mixture with Arsonic Growth Stimulant in Gold Medal Hi-Efficiency Broiler Mash	Exeter	20.00	20.5	3.00	4.1	4.00	3.6
Gloucester By-Products Co.							
Gloucester, Mass.							
Globpro Brand Fish Meal	Tilton	55.00	62.2	5.00	11.5	2.00	0.1
Hales & Hunter							
Chicago, Ill.							
Pioneer 18 Dairy	Lebanon	18.00	18.2	3.00	3.3	9.00	6.6
Pioneer Dry & Freshening	Lebanon	12.00	13.7	2.50	3.5	9.00	7.2
Red Comb all Mash Layer	Lebanon	17.00	20.6	3.00	5.2	5.50	4.9
Red Comb Egg Mash	Lebanon	20.00	20.8	3.00	4.9	6.50	4.9

* Protein and fat not less than, crude fiber not more than.

\+ Unregistered when sampled.

TABLE II — MIXED FEEDS AND INGREDIENTS — Continued

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Harper Feed Mills							
Washington, Pa.							
Harco Breeder Mash	Derry	22.00	19.8	3.00	3.7	6.00	5.6
Harco Breeder Mash (Pellets)	Derry	22.00	23.6	3.00	3.8	6.00	4.9
Harco Flock Booster Pellets	Derry	28.00	30.8	3.00	3.1	5.50	4.8
Harco Laying Mash	Derry	20.00	21.4	3.00	4.7	6.00	5.2
Harco Laying Mash	Derry	20.00	23.0	3.00	4.2	6.00	5.4
Harco .0125% Nicarbazin Mixture in Harco Hi Energy Broiler Mash	Derry	20.00	23.5	3.00	4.9	4.50	3.7
Harco .0125% Nicarbazin Mixture in Harco Hi Energy Broiler Mash (Pellets)	Derry	20.00	20.6	3.00	4.8	4.50	3.7
Harco Poultry Fitting Ration	Derry	9.00	11.5	3.00	3.2	11.00	5.9
+Harco Poultry Fitting Ration	Derry	9.00	15.8	3.00	3.1	11.00	7.0
+Harco Short Feed	Derry	15.00	19.8	3.00	4.0	5.50	4.8
Harco Special Short Feed	Derry	15.00	17.3	3.00	4.0	5.50	5.0
Harco .0175% Sulfaquinoxaline in Harco Chick Starting Mash	Derry	20.00	22.3	3.00	4.8	5.00	4.2
Top Profit Scratch Grains	Derry	9.00	11.5	2.00	3.1	5.00	5.5
W. L. Hogg, Ltd.							
Montreal, Canada							
Canadian Barley Feed	Bow	9.50	11.3	2.00	2.1	14.00	9.3
H. P. Hood & Sons							
Boston, Mass.							
Hoods Calf Starter	Tilton	28.00	29.3	3.00	4.1	4.00	2.6
+Non Fat Dry Milk Solids	Concord	28.00	34.4	0.75	0.8	.....	.....
E. C. & W. L. Hopkins Co.							
Greenfield, N. H.							
Chlortetracycline Mixture in Granite State Booster	Nashua	20.00	22.5	3.00	4.6	4.00	3.6
Granite State Complete Mash	Hillsboro	15.00	17.6	3.00	4.4	7.00	4.8
Granite State 16% Dairy Feed	Hillsboro	16.00	15.8	3.50	4.3	9.00	6.2
Granite State 20% Dairy Feed	Hillsboro	20.00	20.6	4.00	3.8	10.00	6.7
Granite State Egg Mash	Nashua	20.00	21.6	4.00	4.6	7.50	6.5
Granite State Fitting Ration (Coarse)	Hillsboro	14.00	15.7	3.00	4.0	8.00	6.6
Granite State Growing Mash	Nashua	19.00	19.9	3.00	4.4	8.00	6.1
Granite State High Energy Complete Growing Mash	Nashua	16.00	16.6	3.00	5.0	4.00	3.8
**Granite State High Energy Complete Laying Mash	Greenfield	16.00	17.3	3.00	5.4	4.50	3.5
Granite State Hog Ration	Hillsboro	17.50	18.5	3.00	4.8	7.00	5.5
Granite State Horse Feed	Claremont	10.00	11.1	3.00	3.8	8.00	5.6
**Granite State Nicarbazin and Arsanilic acid in Broiler Pellets	Manchester	20.00	21.3	3.50	4.4	4.50	3.4
Granite State Scratch Grains	Nashua	10.00	11.0	2.50	3.2	5.00	2.9
Granite State Scratch Feed	Hillsboro	7.50	10.2	2.50	5.2	10.00	5.8

* Protein and fat not less than, crude fiber not more than.
\+ Unregistered when sampled.
** Bulk.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
International Milling Co.							
Minneapolis, Minn.							
Blackhawk Wheat Bran with Ground Mixed Screenings not Exceeding 8%	Manchester	13.50	15.8	2.50	4.5	12.00	9.2
Blackhawk Wheat Standard Middlings with Ground Mixed Screenings not Exceeding Mill Run	Manchester	14.00	16.4	3.00	4.8	9.50	7.5
+Target Wheat Red Dog	Newport	15.00	17.9	2.00	3.7	4.00	3.5
W. J. Jennison Co.							
Minneapolis, Minn.							
+Sweet Cream Wheat Standard Middlings with Ground Screenings	Colebrook	15.50	172	4.00	4.5	9.50	7.2
R. P. Johnson & Sons							
Potter Place, N. H.							
Johnsons Chick Starter	Potter Place	16.00	20.2	3.00	4.2	7.00	5.4
Johnsons Complete Laying Mash	Potter Place	15.00	17.0	3.00	4.0	8.00	6.1
Johnsons Dairy Feed	Potter Place	16.00	18.5	3.00	3.2	9.00	7.0
Johnsons Growing Mash	Potter Place	14.00	18.9	3.00	4.1	7.00	5.2
Johnsons Laying Mash	Potter Place	18.00	19.8	4.00	3.9	8.00	5.3
Johnsons Pig & Hog Feed	Potter Place	15.00	17.7	2.00	3.8	7.00	5.8
Kellogg Company							
Battle Creek, Mich.							
Kellogg Hominy Feed	Colebrook	9.50	10.2	6.00	8.5	5.00	3.7
Keystone Dehydrators							
Nazareth, Penna.							
Keystone Super Green Dehydrated Alfalfa Meal	Bow	17.00	18.4	2.00	2.6	27.00	**29.9**
Lincoln Mills, Inc.							
Indianapolis, Ind.							
Pulverized Lincoln Oats Containing Wheat & Barley	Manchester	11.00	11.1	2.00	2.4	13.00	**15.0**
L. B. Lovitt & Co.							
Memphis, Tenn.							
"Lovit Brand" 41% Protein Cottonseed Meal	Bow	41.00	41.8	3.00	5.1	14.00	11.6
Maine Marine Products, Inc.							
Portland, Maine							
Maine Concentrate	Concord	50.00	50.5	10.00	16.2	1.00	1.0
Maine Concentrate	Bow	50.00	57.2	10.00	14.2	1.00	0.6
Maine Concentrate	Concord	50.00	52.6	10.00	20.0	1.00	0.2
Maine Concentrate	Suncook	50.00	58.1	10.00	16.6	1.00	0.1
Maine Sea Horse Concentrate	Bow	60.00	63.5	8.00	15.5	1.00	0.2

* Protein and fat not less than, crude fiber not more than.
+ Unregistered when sampled.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Mapleleaf Milling Co. **Winnipeg, Manitoba, Canada**							
Maple Leaf Bran	Concord	14.00	16.5	3.50	5.1	11.50	9.6
McKenzie Milling Co. **Quincy, Mich.**							
†McKenzies Wheat Middlings/G W S	Suncook	12.00	14.3	3.00	4.9	9.50	4.6
Merrimack Farmers Exchange **Concord, N. H.**							
Arsanilic Acid Mixture in Merrimack Fast Gro Starter & Broiler	Ossipee	20.00	21.4	3.00	3.7	4.50	3.5
Chlortetracycline & Oxytetracycline Mixture	Milford	20.00	21.8	2.50	3.9	4.50	3.9
Chlortetracycline & Oxytetracycline Mixture in High-Level Antibiotic Mash	Keene	20.00	20.7	2.50	4.1	4.50	4.3
16% (Fine) Dairy Ration	Keene	16.00	16.9	2.75	3.4	10.00	7.2
Merrimack All Mash	Peterboro	15.00	17.1	3.50	4.1	7.00	6.1
**Merrimack All Mash	E. Concord	15.00	16.2	3.50	4.3	7.00	5.7
Merrimack All Mash	Ossipee	15.00	17.1	3.50	4.3	7.00	6.5
Merrimack All Mash	Manchester	15.00	16.5	3.50	4.6	7.00	6.0
Merrimack Calf Starter and Growing Ration	Bow	12.00	17.8	2.75	2.4	12.00	8.8
Merrimack Calving Ration	Franklin	12.00	15.3	2.75	2.3	15.00	11.2
Merrimack Calving Ration	Peterboro	12.00	14.5	2.75	2.4	15.00	10.3
Merrimack Chick Feed	Peterboro	9.00	9.9	2.50	3.5	5.00	1.7
Merrimack Complete Grower	Henniker	15.00	16.0	3.00	4.0	8.00	5.1
Merrimack Complete Layer	Henniker	15.00	15.3	3.00	4.3	7.00	6.0
Merrimack Complete Layer (Pellet)	Henniker	15.00	16.2	3.00	4.2	7.00	5.8
**Merrimack 20% Dairy Feed	Henniker	20.00	22.2	3.50	4.3	8.50	7.7
**Merrimack 20% Dairy Feed	Henniker	20.00	22.1	3.50	4.4	8.50	8.2
**Merrimack 16% Dairy Ration	Bow	16.00	18.6	3.50	4.0	9.00	7.4
Merrimack 16% Dairy Ration	Keene	16.00	17.6	3.50	4.5	9.00	7.5
Merrimack 16% Dairy Ration	Laconia	16.00	17.8	3.50	4.0	9.00	8.1
**Merrimack 16% Dairy Ration	Brentwood	16.00	17.0	3.50	4.0	9.00	7.5
Merrimack 16% Dairy Ration	Bow	16.00	16.1	3.50	3.6	9.00	7.3
Merrimack 20% Dairy Ration	Bow	20.00	21.5	3.50	4.3	8.50	7.8
Merrimack 20% Dairy Ration	Milford	20.00	20.1	3.50	4.1	8.50	7.6
Merrimack Economy Layer	Bow	15.00	17.2	3.00	3.5	8.00	6.9
Merrimack Economy Layer	Franklin	15.00	17.2	3.00	3.4	8.00	6.4
Merrimack 14% Fitting Ration	Henniker	14.00	15.6	3.50	3.9	9.00	6.8
**Merrimack 14% Fitting Ration	Bow	14.00	16.5	3.50	4.1	9.00	7.3
Merrimack 14% Fitting Ration	Laconia	14.00	16.1	3.50	3.9	9.00	7.1
**Merrimack 14% Fitting Ration	Laconia	14.00	15.8	3.50	3.9	9.00	6.5
**Merrimack 14% Fitting Ration	Gilford	14.00	14.4	3.50	4.0	9.00	7.0
Merrimack 14% Fitting Ration	Manchester	14.00	16.6	3.50	4.3	9.00	7.5
Merrimack 14% Fitting Ration	Concord	14.00	15.8	3.50	3.5	9.00	6.7
Merrimack 14% Fitting Ration	Concord	14.00	14.7	3.50	3.8	9.00	6.5

* Protein and fat not less than, crude fiber not more than.
† Unregistered when sampled.
** Bulk.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Merrimack Farmers Exchange (Continued)							
Merrimack Fodder Ration	Franklin	10.00	12.8	1.50	1.6	20.00	16.1
Merrimack Hi-F Grower	Peterboro	16.00	17.2	2.50	3.8	4.50	4.2
Merrimack Hi-F Grower	Ossipee	16.00	17.0	2.50	3.6	4.50	3.9
**Merrimack Hi-F Layer	Laconia	15.00	16.1	2.50	3.6	4.50	3.9
**Merrimack Hi-F Layer	Pittsfield	15.00	15.3	2.50	3.7	4.50	4.0
Merrimack Hi-F Layer	Ossipee	15.00	16.2	2.50	3.7	4.50	4.1
Merrimack Hi-F Layer	Milford	15.00	15.3	2.50	3.7	4.50	4.0
**Merrimack Hi-F Layer (Pelleted)	Pittsfield	15.00	16.5	2.50	3.5	4.50	4.3
Merrimack Hi-Pro-Vite Pellets	Henniker	25.00	27.0	2.50	4.0	5.50	4.6
Merrimack Hi-Pro-Vite Pellets	Bow	25.00	26.4	2.50	4.1	5.50	4.5
Merrimack Hi-Pro-Vite Pellets	Peterboro	25.00	25.6	2.50	3.8	5.50	4.9
+Merrimack Hominy Feed	Bow	9.00	11.1	5.00	5.9	7.00	3.6
Merrimack Hominy Feed	Milford	9.00	11.6	5.00	6.0	7.00	4.3
Merrimack Horse Feed	Ossipee	11.00	12.3	3.25	3.6	10.00	6.7
Merrimack Laying Mash	Henniker	19.00	20.3	3.50	3.8	7.00	5.4
Merrimack Pig Feed	Keene	17.00	17.8	3.00	4.6	7.00	6.7
Merrimack Pig Feed	Laconia	17.00	18.5	3.00	4.5	7.00	7.2
Merrimack Pig Feed	Manchester	17.00	18.2	3.00	4.5	7.00	6.8
Merrimack Pig Feed	Concord	17.00	17.3	3.00	4.4	7.00	6.7
Merrimack Poultry Fitting Ration	Franklin	13.50	15.3	2.50	2.9	8.00	4.8
Merrimack Provender	Ossipee	9.00	10.5	3.00	3.8	10.00	5.1
Merrimack Scratch Feed	Peterboro	9.00	9.2	2.50	3.7	5.00	3.2
Merrimack Scratch Feed	Franklin	9.00	9.2	2.50	3.2	5.00	2.7
Merrimack 18% Special Dairy Ration	Keene	18.00	19.2	3.50	3.8	8.50	7.3
Merrimack Stock Feed	Henniker	9.00	12.1	2.50	3.2	12.00	9.7
Merrimack Stock Feed	Bow	9.00	12.1	2.50	2.5	12.00	9.6
Merrimack Sulfaquinoxaline Mixture in Merrimack Hi-Level Sulfa Mash	Bow	22.00	21.7	3.00	3.3	4.50	3.9
**Merrimack Super Mash	Surry	16.00	17.1	2.50	3.7	4.50	4.7
**Merrimack Super Mash	Rochester	16.00	18.0	2.50	3.7	4.50	4.4
Merrimack Super Mash	Peterboro	16.00	16.8	2.50	3.7	4.50	4.1
Merrimack Turkey Growing Mash (Pellets)	Ossipee	22.00	23.9	2.50	3.6	4.50	4.5
Merrimack Worm Control Mixture	Ossipee	15.00	16.2	3.00	4.6	8.00	4.3
Nicarbazin & Arsanilic Acid in Merrimack Fast Gro Starter and Broiler	Franklin	20.00	21.1	3.00	3.6	4.50	3.5
Sulfaquinoxaline & Arsanilic Acid in Merrimack Fast Gro Starter and Broiler	Peterboro	20.00	21.4	3.00	3.8	4.50	3.6
Sulfaquinoxaline Mixture in Merrimack Complete Grower	Bow	15.00	15.2	3.00	4.2	8.00	4.9
**Sulfaquinoxaline in Merrimack Hi-F-Grower	Rochester	16.00	16.8	2.50	3.5	4.50	3.8
Sweetened Oat Mill By-Product	Bow	3.00	4.3	1.00	0.7	30.00	25.4
Sweetened Oat Mill By-Product	Peterboro	3.00	3.3	1.00	0.6	30.00	27.5

* Protein and fat not less than, crude fiber not more than.
** Bulk.
+ Unregistered when sampled.

TABLE II — MIXED FEEDS AND INGREDIENTS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Minute Maid Corp. **Plymouth, Florida**							
Golden Isle Citrus Pulp	Keene	5.50	5.6	2.75	3.6	15.00	11.4
Molsom Breweries **Montreal, Quebec**							
Molsom Dried Brewers Grains	Colebrook	22.00	22.1	7.00	6.5	15.00	15.0
Mowat, Wilson Co. **Detroit, Mich.**							
Dried Molasses Beet Pulp	N. Haverhill	7.00	9.9	0.30	0.5	20.00	16.2
Mutual Products Co. **Minneapolis, Minn.**							
Dairyade Formula 33	Lebanon	25.00	26.1	4.50	5.4	2.00	2.2
Dairyade Original Formula	Lebanon	20.00	20.3	4.50	4.4	3.00	2.8
National Alfalfa Dehydrating Co. **Lamar, Colorado**							
Jack Rabbit 17% Dehydrated Alfalfa Granules	Keene	17.00	17.8	1.50	3.3	27.00	20.4
National Biscuit Company **Toledo, Ohio**							
Pure Wheat Bran	Potter Place	13.00	14.8	3.00	3.4	10.00	10.0
National Distillers Products Co. **New York, N. Y.**							
Nadrisol Corn Distillers Dried Solubles	Suncook	25.00	37.1	6.00	12.9	4.00	4.0
The Neumond Co. **St. Louis, Mo.**							
+Neumonds 26% Brewers Dried Grains	Manchester	26.00	30.5	4.50	6.8	18.00	14.0
+Neumonds 17% Dehydrated Alfalfa Meal	Concord	17.00	16.6	1.50	2.4	27.00	31.5
+Neumonds 17% Dehydrated Alfalfa Meal	Concord	17.00	13.0	1.50	2.1	27.00	29.3
Neumonds 17% Protein Dehydrated Alfalfa Meal	Suncook	17.00	18.4	1.50	4.1	27.00	25.9
Northern Ohio Sugar Co. **Findlay, Ohio**							
G W Dried Beet Pulp	Concord	7.00	9.2	0.30	0.5	22.50	19.2
Ogden Grain Co. **Utica, N. Y.**							
"Biddy Mash"	Manchester	20.00	20.8	2.50	3.3	6.50	5.8
Complete Starter - Grower - Layer - Breeder	Manchester	16.00	16.6	2.50	3.8	6.50	6.5

* Protein and fat not less than, crude fiber not more than.
\+ Unregistered when sampled.
** Bulk.

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Ogden Grain Co. (Continued)							
16% Dairy Feed	Manchester	16.00	17.0	3.50	3.2	9.00	7.4
+Ogden Complete Layer	Salem Depot	15.00	16.5	3.00	3.1	7.00	6.4
Ogden Complete Starter - Grower - Layer - Breeder	Salem Depot	16.00	16.6	2.50	3.3	6.50	5.5
Ogden Rabbit Pellets	Salem Depot	16.50	15.7	3.00	3.2	13.00	11.3
+Ogden Scratch Grains	Salem Depot	9.00	9.9	3.00	3.7	6.00	2.7
+Ogden Turkey Grower and Developer	Salem Depot	20.00	21.8	3.00	3.3	8.50	6.0
Super Pig Ration	Manchester	14.00	15.0	3.50	3.7	7.00	6.1
+U.T.K. Fitting Ration	Salem Depot	14.00	15.7	3.00	3.9	12.00	9.3
U.T.K. Sweet 16%	Salem Depot	16.00	17.0	3.00	3.4	12.00	8.6
U.T.K. Sweet 18%	Salem Depot	18.00	19.9	3.00	3.4	12.00	9.1
Ogilvie Flour Mills Co. Winnipeg, Manitoba, Canada							
+Ogilvie Wheat Bran	Bow	15.00	14.8	3.50	5.3	11.50	11.5
Ottawa Valley Grain Products Ltd. Renfrew, Ontario, Canada							
+Ground Oat Hulls	Bow	3.00	3.6	1.00	1.0	32.00	31.9
Park & Pollard Co. Buffalo, N. Y.							
+Arseno & Nicarbazin in Hi Power 20% Broiler Ration	Newport	20.00	22.4	3.50	4.3	4.00	3.6
Corn & Oats Half & Half	Plymouth	10.00	10.6	3.00	3.7	8.00	5.5
Green Acres 14%	Colebrook	14.00	18.3	3.00	3.1	10.00	9.1
Hi-Prime Complete Turkey Grower (Pelleted)	Colebrook	20.00	20.5	3.50	4.0	5.50	5.1
Lay or Bust All Mash Breeder (Pelleted)	Claremont	16.00	17.6	3.50	3.6	4.50	4.4
Lay or Bust All Mash Grower	Lebanon	15.50	16.8	3.50	3.8	4.50	4.4
Lay or Bust All Mash Layer	Plymouth	16.00	16.6	3.50	3.2	4.50	3.8
Lay or Bust Breeder Mash	Salem Depot	20.00	19.5	3.50	3.9	5.00	4.7
Lay or Bust Egg Mash	Lancaster	20.00	22.7	3.50	3.8	5.00	4.5
Lay or Bust Hi-Value Pellets	Colebrook	12.00	14.2	3.00	3.2	6.50	5.2
Lay or Bust Poultry Fitting Ration	Colebrook	12.00	16.9	3.00	2.1	9.50	7.3
Milk Maid Bulky Sweet Dairy	Salem Depot	12.00	13.9	2.50	3.8	14.00	5.3
Milk Maid Calf Starter Mix	Colebrook	19.00	18.6	3.50	3.6	8.00	4.9
Milk Maid 16% Dairy Ration	Lebanon	16.00	17.6	4.00	4.3	9.00	7.3
Milk Maid 16% Dairy Ration	Newport	16.00	19.8	4.00	4.1	9.00	7.6
Milk Maid 20% Dairy Ration	Lancaster	20.00	20.1	4.00	3.5	9.00	7.2
Milk Maid 20% Dairy Ration	Newport	20.00	21.4	3.50	3.9	9.00	8.2
Milk Maid Dri Fresh Ration	Salem Depot	12.00	14.9	3.00	3.4	10.00	8.5
Milk Maid Sheep and Goat Feed	Newport	16.00	16.6	3.00	3.6	9.00	7.1
Milk Maid Test Cow Ration	Lebanon	18.00	18.6	4.00	4.0	9.00	6.6
Milk Maid 14% Test Ration	Lebanon	14.00	15.6	4.00	4.8	9.00	8.3
Park & Pollard Beef Cattle Fattening Supplement	Colebrook	32.00	29.6	1.50	2.2	8.50	7.8
+Park & Pollard Broiler Ration	Salem Depot	20.00	22.0	3.00	3.7	6.00	5.4

* Protein and fat not less than, crude fiber not more than.

+ Unregistered when sampled.

TABLE II — MIXED FEEDS AND INGREDIENTS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Park & Pollard (Continued)							
Park & Pollard Complete Grower	Salem Depot	15.00	16.4	3.00	3.4	6.00	5.6
Park & Pollard Complete Layer	Claremont	15.00	16.1	3.00	2.9	6.00	5.3
Park & Pollard Complete Layer	Newport	15.00	17.7	3.00	3.6	6.00	5.8
Park & Pollard 16% Dairy	Lebanon	16.00	17.4	3.00	3.1	10.00	8.9
Park & Pollard 20% Dairy	Lancaster	20.00	20.1	3.00	3.4	10.00	8.4
Park & Pollard Economy Scratch	Plymouth	9.00	10.1	2.00	3.9	4.50	3.5
Park & Pollard Economy Scratch	Newport	9.00	9.8	2.00	3.5	4.50	3.0
+Park & Pollard Fitting Ration	Lebanon	14.00	15.2	3.00	3.1	11.00	11.0
Park & Pollard Go - To - It Pig Grower	Newport	14.00	16.1	3.50	3.9	7.00	6.9
Park & Pollard Go - To - It Pig Grower (Pelleted)	Plymouth	14.00	17.2	3.50	3.8	7.00	5.2
Park & Pollard Growing Feed	Plymouth	18.00	19.5	3.00	2.9	7.00	5.9
+Park & Pollard Histostat Mixture in Hi-Prime Turkey Starter	Plymouth	28.00	30.0	3.50	3.7	5.00	4.9
Park & Pollard Laying Mash	Claremont	20.00	21.4	3.00	2.6	7.00	5.3
Park & Pollard Laying Mash	Newport	20.00	19.1	3.00	3.1	7.00	5.9
Park & Pollard Power Pakt Horse Feed	Newport	12.00	15.3	3.00	3.6	9.00	7.1
Park & Pollard Rabbit Pellets	Colebrook	17.00	18.0	3.00	3.4	12.00	9.2
Park & Pollard Stock Feed	Newport	10.00	16.2	2.00	2.4	12.00	11.0
Park & Pollard Sulfaquinoxaline Mixture in Lay or Bust Chick Starter	Plymouth	21.00	23.7	3.50	4.3	4.50	4.2
Red Ribbon 18% Dairy Ration	Colebrook	18.00	19.0	3.50	4.0	11.00	7.7
Red Ribbon 20% Dairy Ration	Lancaster	20.00	20.9	3.50	3.3	11.00	9.6
Sulfaquinoxaline Mixture in Lay or Bust All Mash Grower	Lebanon	16.00	16.0	3.50	3.6	4.50	4.3
Sulfaquinoxaline Mixture in Lay or Bust Growing Feed	Colebrook	18.00	19.2	3.50	3.9	5.00	4.5
Yankee Horse Feed	Claremont	10.00	14.0	2.50	3.4	10.00	6.4
Yankee Horse Feed	Salem Depot	10.00	15.1	2.50	3.5	10.00	6.8
George H. Parker Grain Co. **Danvers, Mass.**							
Bill McHugh's Horse Feed	Salem Depot	12.00	12.1	3.50	3.0	10.00	7.0
Bill McHugh's Horse Feed	Salem Depot	12.00	13.0	3.50	3.2	10.00	6.8
Bill McHugh's Horse Feed	Salem Depot	12.00	13.4	3.50	3.4	10.00	7.2
Pasco Packing Co. **Dade City, Fla.**							
Sugar Sweet Citrus Meal	Keene	6.00	6.5	2.00	1.2	13.50	10.6
Pierce Grain Corp. **Buffalo, N. Y.**							
Pierce Special 16% Dairy Feed	Colebrook	16.00	17.9	3.50	3.5	8.50	6.7
+Reliance Coarse Calf Meal	Colebrook	20.00	20.2	3.00	2.6	8.00	6.6
Reliance 16 Dairy Ration	Colebrook	16.00	18.7	3.50	3.5	9.00	6.9
+Superior Complete Laying Mash	Colebrook	16.00	18.6	3.50	2.9	8.25	6.2
+Superior Fitting Ration	Colebrook	14.00	16.1	3.50	3.6	9.00	7.0

* Protein and fat not less than, crude fiber not more than.
+ Unregistered when sampled.

TABLE II — MIXED FEEDS AND INGREDIENTS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Pillsbury's Mills Inc.							
Minneapolis, Minn.							
Pillsbury's XX Dairy	Salem Depot	16.00	14.8	4.00	1.8	4.00	1.6
Pillsbury's Hard Wheat Bran with G W S not exceeding Mill Run	Colebrook	14.00	16.4	4.00	4.3	12.00	10.0
Pillsbury's Wheat Standard Middlings with G W S	Manchester	15.00	18.2	4.00	5.2	9.50	7.6
Post Cereals Div. of General Foods Corp.							
Battle Creek, Mich.							
+Burt's Cereal Feed	Manchester	16.00	17.6	3.00	3.9	21.00	21.0
Presto Grain Co.							
Claremont, N. H.							
Presto 16% Dairy Ration	Claremont	16.00	17.6	3.50	3.4	9.00	6.1
Presto 16% Dairy Ration	Claremont	16.00	18.2	3.50	3.3	9.00	5.7
Presto 20% Dairy Ration	Claremont	20.00	20.6	3.50	3.1	9.00	6.1
Presto Fitting Ration	Claremont	14.00	15.0	3.50	3.9	9.00	5.6
Presto Fitting Ration	Claremont	14.00	15.8	3.50	3.6	9.00	5.8
Publicker Industries Inc.							
Philadelphia, Pa.							
"Paco" Molasses Distillers Dried Solubles	Manchester	12.00	15.5	0.50	0.3	5.00	4.7
Quaker Oats Co.							
Chicago, Ill.							
Bell Cow Wheat Bran	Lancaster	15.00	16.6	3.50	4.4	11.50	11.0
+Vim Oat Mill By-Product	Milford	2.50	2.0	1.00	0.6	32.00	35.4
The Quaker Oats Co.							
Peterborough, Ontario, Canada							
Peterborough Oat Mill By-Product Manchester	Manchester	2.50	3.3	1.00	1.0	32.00	32.8
Ralston Purina Co.							
St. Louis, Mo.							
Northeastern Scratch Feed	Lancaster	9.00	9.5	2.00	2.4	5.00	3.2
Purina Breeder Lay Chow E	Nashua	22.00	23.4	2.50	5.0	5.50	4.8
Purina Breeder Layena Complete Ration E	Concord	16.50	16.6	3.50	5.6	4.50	3.9
Purina Bulky Las	Lancaster	10.00	10.9	1.50	1.9	15.00	12.2
Purina Calf Startena E	Manchester	19.50	22.2	2.50	2.6	9.50	7.9
Purina Chick Growena	Concord	17.00	18.0	3.00	4.6	7.00	5.0
Purina Chick Growing Chow E	Nashua	23.00	24.2	2.50	3.8	8.00	6.1
Purina Chlortetracycline in Chek-R-Aid	Concord	20.00	20.9	3.00	5.4	6.00	3.9
Purina Complete Sow & Pig Chow E	Lancaster	16.00	17.6	2.50	3.4	6.00	4.8

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+ Unregistered when sampled.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Ralston Purina Co. (Continued)							
Purina Cow Chow E 16%	Manchester	16.00	16.0	3.00	2.7	10.00	5.6
Purina Cow Chow 16 E	Concord	16.00	16.6	3.00	5.2	10.00	5.9
Purina D & F Chow E	Nashua	12.50	13.3	2.50	2.8	12.00	8.5
Purina 16% Dairy Chow	Nashua	16.00	16.0	2.50	3.7	15.00	9.5
Purina 18 Dairy Chow	Lancaster	18.00	17.9	2.50	3.0	15.00	8.1
+Purina Fox Chow	Manchester	20.00	26.6	3.00	4.4	6.00	5.1
Purina Goat Chow E	Manchester	16.00	17.2	3.00	3.4	10.00	6.9
Purina Layena (Complete Ration) E	Nashua	16.00	16.4	2.50	5.6	5.00	3.6
Purina Milk Chow 18%	Lancaster	18.00	18.0	3.00	3.1	10.00	6.4
Purina Mink Chow	Nashua	20.00	22.2	2.00	4.3	5.00	3.0
Purina Mink Chow	Manchester	20.00	22.8	2.00	4.6	5.00	3.5
Purina Nicarbazin Mixture in Chick Growena	Concord	17.00	17.8	3.00	4.7	7.00	4.9
Purina Nitrophenylarsonic acid in Purina Turkey Fatena	Manchester	15.50	16.1	3.50	6.0	8.00	5.0
Purina 4-Nitrophenylarsonic acid in Purina Turkey Growena E	Nashua	20.00	20.4	3.50	5.2	7.00	5.3
Purina 3-Nitro-4-Hydroxyphenylarsonic acid and Nicarbazin Mixture in Purina Broiler Chow Finisher E	Nashua	18.00	19.9	4.50	5.8	5.00	3.5
Purina 3-Nitro-4-Hydroxyphenylarsonic acid in Purina Broiler Chow Starter E	Nashua	22.00	23.3	4.50	5.5	5.00	3.6
Purina 3-Nitro-4-Hydroxyphenylarsonic acid and Nicarbazin in Starter E	Nashua	22.00	22.8	4.50	5.7	5.00	3.6
Purina 3-Nitro-4-Hydroxyphenylarsonic acid and Nicarbazin in Purina Broiler Chow Starter	Manchester	22.00	23.3	4.50	5.6	5.00	3.9
Purina 3-Nitro-4-Hydroxyphenylarsonic acid and Nicarbazin in Purina Broiler Chow Starter	Concord	22.00	25.2	4.50	5.4	5.00	3.8
Purina Omolene	Lancaster	10.00	10.5	3.00	3.4	11.00	7.0
+Purina Pigeon Chow	Manchester	13.00	14.0	2.00	3.0	5.00	2.7
Purina Range Checkers	Nashua	20.00	21.6	2.00	3.4	10.00	8.8
Purina Super Layena Complete Ration E	Concord	17.00	17.8	7.00	8.3	4.50	3.0
Purina Turkey Breeder Layena	Manchester	16.50	18.2	3.00	4.4	6.50	5.1
Purina Turkey Fatena	Manchester	15.50	16.5	3.50	5.6	8.00	4.9
Purina Turkey Fatena	Concord	15.50	16.0	3.50	5.7	8.00	4.9
Purina Turkey Growena E	Nashua	20.00	21.7	3.50	5.1	7.00	5.2
John Reardon & Sons Cambridge, Mass.							
Register Brand Fish Meal	Potter Place	60.00	62.3	5.00	8.8	1.00	0.2
Register Brand 45% Protein Meat and Bone Scrap	Concord	45.00	47.2	8.00	10.1	....	....

* Protein and fat not less than, crude fiber not more than.
+ Unregistered when sampled.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
John Reardon & Sons (Continued)							
Register Brand 45% Protein Meat and Bone Scrap	Tilton	45.00	42.7	8.00	9.4	.....	.....
Register Brand 45% Protein Meat and Bone Scrap	Concord	45.00	45.7	8.00	12.0	.....	.....
Russell-Miller Milling Co. **Minneapolis, Minn.**							
Hard Wheat Occident Standard Middlings	Concord	15.00	16.3	4.00	4.9	9.50	8.2
Occident Wheat Bran	Charlestown	14.00	18.3	4.00	4.6	11.50	11.5
Schenley Distillers Inc. **New York, N. Y.**							
+Schenley's Soludri Corn Distillers Dried Solubles	Bow	22.00	27.9	3.00	11.2	4.00	4.7
Scotia Fat Salvage Co., Ltd. **Middle Sackville, Halifax, N. S.**							
+Pure Ground Fish Meal	Manchester	64.00	64.30	8.00	5.64	.....	.....
Sherwin-Williams Co. **Cleveland, Ohio**							
Sherwin-Williams 34% Linseed Oil Meal	Bow	34.00	34.0	3.50	3.9	9.50	9.3
Sherwood Feed Mills, Inc. **Baltimore 2, Md.**							
+Brewers Dried Grains	Keene	26.00	22.7	6.00	5.5	15.00	10.8
Allen V. Smith, Inc. **Marcellus Falls, N. Y.**							
Smith's Barley Feed	Keene	13.00	14.4	2.00	4.4	15.00	12.4
Smith Meal Co., Inc. **Amagansett, N. Y.**							
Smith's Fish Meal	Manchester	55.00	66.2	5.00	8.0	3.00	0.1
B. T. Smith Conc., Inc. **Lakeland, Fla.**							
+B. T. Smith Brand Dried Citrus Pulp	Bow	5.00	6.9	3.00	1.3	16.00	11.8
South End Hay and Grain Co. **Manchester, N. H.**							
Nicarbazin in Superior Starter & Broiler	Londonderry	20.00	22.5	2.50	4.1	4.00	3.5
Superior High Energy Breeder Mash	Londonderry	16.00	17.3	3.00	3.7	4.50	4.0

* Protein and fat not less than, crude fiber not more than.
+ Unregistered when sampled.

TABLE II — MIXED FEEDS AND INGREDIENTS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
F. B. Spaulding Co. **Lancaster, N. H.**							
Provender	Lancaster	10.00	10.9	3.50	4.2	9.00	5.4
"Real" Hog Grower & Fattener	Lancaster	14.00	16.2	3.50	3.5	5.50	4.4
Spaulding's 16% Dairy Ration	Lancaster	16.00	17.6	3.00	3.2	9.00	7.4
Spaulding's 20% Dairy Ration	Lancaster	20.00	22.6	2.75	2.8	9.00	7.0
Spaulding's Fitting Ration	Lancaster	12.00	14.2	3.25	3.3	9.00	7.8
Spaulding's Horse Feed	Lancaster	10.00	12.2	3.25	4.1	9.00	7.3
Spencer Kellogg Co. **Chicago, Ill.**							
Spencer Kellogg 34% Protein Old Process (Expeller) Linseed Oil Meal	Potter Place	34.00	36.8	3.50	3.9	9.00	8.4
Spencer Kellogg Solvent Extracted Soybean Oil Meal	Colebrook	44.00	47.1	0.50	0.6	7.00	5.8
Suni Citrus Products Co. **Haines City, Fla.**							
+Sweet Suni Citrus Pulp	Manchester	6.00	5.7	5.00	4.4	15.00	13.9
Sunny Slope Farms, Inc. **Nazareth, Pa.**							
+Sunny Slope Farm Dehydrated Alfalfa Meal	Concord	17.00	17.9	2.00	3.3	27.00	25.0
Superior Sugar Refining Co. **Menominee, Mich.**							
+Steam Dried Beet Pulp	Colebrook	7.00	8.2	0.30	0.4	22.50	20.4
Swift & Co. **Chicago, Ill.**							
Swift's Solvent Extracted 44% Protein Soybean Oil Meal	Lancaster	44.00	48.2	0.50	0.7	7.00	5.2
Ultra-Life Laboratories Inc. **East St. Louis, Ill.**							
+High Energy Poultry	Keene	17.00	20.6	4.50	5.8	3.50	4.8
United Cooperative Farmers Exc. **Fitchburg, Mass.**							
**United Coop. Farmers All Mash Grower & Layer	New Ipswich	15.50	16.0	4.00	5.6	5.00	3.9
Unity Feeds, Inc. **Manchester, N. H.**							
**Unity Feeds Breeder Mash	Manchester	20.00	20.0	3.00	4.1	6.00	5.7
Unity Feeds Breeders Mash (Pellet)	Manchester	20.00	19.6	3.00	4.9	6.00	5.0
Unity Feeds Chick Starter	Manchester	20.00	20.3	3.00	4.1	4.50	4.4

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\+ Unregistered when sampled.
** Bulk.

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Unity Feeds, Inc. (Continued)							
Unity Feeds Chlortetracycline (Aureomycin) Mixture in Unity Booster-Ettes	Manchester	17.00	16.3	2.00	5.1	4.00	3.1
Unity Feeds Complete Rabbit Pellets	Manchester	16.00	16.1	3.00	3.7	20.00	9.4
Unity Feeds 16% Dairy Ration	Manchester	16.00	17.2	3.50	3.4	9.00	7.0
**Unity Feeds 16% Dairy Ration	Brentwood	16.00	17.3	3.50	3.3	9.00	8.8
Unity Feeds Dairy & Fitting Ration	Manchester	14.00	15.3	3.50	3.8	8.00	6.8
**Unity Feeds Dairy & Fitting Ration	Amherst	14.00	16.4	3.50	3.5	8.00	6.6
Unity Feeds High Energy Breeder Mash (Pellets)	Manchester	16.00	17.4	3.00	4.3	4.00	3.6
Unity Feeds High Energy Growing Mash (Pellets)	Manchester	15.00	15.8	3.00	4.9	4.50	3.9
**+Unity High Energy Growing & Laying Mash	Brentwood	15.00	15.7	4.00	5.0	4.00	3.4
**Unity Feeds Hi Energy Laying Mash	Hollis	15.00	16.4	3.00	4.0	4.50	3.6
**Unity Feeds Hi Energy Laying Mash (A Complete Ration)	Brentwood	15.00	16.6	3.00	4.1	4.50	3.4
**Unity Improved Calf Ration	Brentwood	20.00	19.2	3.50	3.3	6.00	5.4
Unity Feeds Laying Mash	Manchester	20.00	19.1	3.00	4.8	7.00	4.9
**Unity Feeds Laying Mash	Manchester	20.00	19.7	3.00	4.1	7.00	5.8
Unity Feeds Laying Mash (Pellets)	Manchester	20.00	19.6	3.00	4.5	7.00	6.4
+Unity Feeds Nicarbazin Mixture in Broiler Grower (Pellets)	Manchester	20.00	20.5	2.50	4.3	4.00	3.3
Unity Feeds Nicarbazin Mixture in Broiler Maker (Pellets)	Manchester	22.00	22.4	3.00	5.8	4.00	3.5
Unity Feeds Nitrophenide Mixture in Super Gro Ration (Pellets)	Manchester	17.00	17.2	2.50	4.9	4.00	3.4
Unity Feeds Scratch Feed	Manchester	9.00	10.0	2.50	3.2	5.00	3.1
**Unity Feeds Scratch Feed	Manchester	9.00	10.1	2.50	3.8	5.00	3.8
+Unity Feeds Special New Hampshire Breeder Scratch Feed 1-1-1	Manchester	10.00	10.8	2.50	3.0	6.00	3.3
Unity Feeds Sulfaquinoxaline-Chlortetracycline Mixture in Unity Turkey and Game Bird Super Ration	Brentwood	28.00	27.6	3.00	4.6	4.00	3.8
**Unity Feeds Super-Gro Ration	Manchester	17.00	17.2	2.50	4.3	4.00	3.9
Unity Feeds Super-Gro Ration	Manchester	17.00	17.3	2.50	4.4	4.00	3.8
Unity Feeds Turkey & Game Bird Breeder Mash	Brentwood	24.00	27.8	3.00	3.6	6.00	5.0
Unity Feeds Turkey & Game Bird Breeder Mash	Brentwood	24.00	24.3	3.00	4.0	6.00	4.8
**Unity Feeds Turkey & Game Bird Growing Mash	Brentwood	20.00	20.5	3.00	4.1	5.00	4.8

* Protein and fat not less than, crude fiber not more than.
+ Unregistered when sampled.
** Bulk.

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Unity Grist Mill							
Manchester, N. H.							
Sulfaquinoxaline - Chlortetracycline Mixture in Unity Turkey and Game Bird Super Ration	Brentwood	28.00	25.8	3.00	4.0	4.00	3.8
**Unity Dairy & Fitting Ration	Bradford	14.00	14.8	3.50	3.5	9.00	7.2
Unity Feeds Breeder Mash	Manchester	20.00	19.3	3.00	4.3	6.00	5.2
**Unity Feeds High Energy Breeder Mash	Henniker	16.00	17.8	3.00	4.4	4.00	3.5
**Unity Grist Mill 16% Dairy Ration	Brentwood	16.00	17.5	3.50	3.5	9.00	7.1
Unity Grist Mill 4-Way Mash	Manchester	15.00	16.4	3.50	4.9	7.00	6.1
Unity Grist Mill 4-Way Mash (Pellets)	Manchester	15.00	17.8	3.50	4.4	7.00	5.4
Unity Improved Calf Ration	Brentwood	20.00	20.6	3.50	3.2	6.00	5.7
H. K. Webster Co.							
Lawrence, Mass.							
Blue Seal Breeder Mash	Nashua	20.00	22.6	3.50	3.9	7.00	4.6
Blue Seal Chlortetracycline and Sulfaquinoxaline Mixture	Laconia	20.00	23.5	3.00	3.3	4.00	4.0
Blue Seal Chlortetracycline and Sulfaquinoxaline Mixture	Nashua	20.00	22.5	3.00	3.7	4.00	4.2
Blue Seal "20" Dairy Ration	Laconia	20.00	21.6	3.50	3.5	9.00	7.6
Blue Seal Economizer "16" Dairy Ration	Lisbon	16.00	17.2	2.50	2.9	15.00	13.2
Blue Seal Egg Mash	Laconia	20.00	22.7	3.50	5.2	7.00	6.7
Blue Seal Fine "16" Dairy Ration	Lisbon	16.00	17.3	3.50	4.3	9.00	7.9
Blue Seal Fitting Ration	Laconia	14.00	15.7	3.50	3.8	9.00	8.5
Blue Seal Horse Feed	Laconia	10.00	12.0	3.00	3.4	9.00	6.2
+Blue Seal Nicarbazin in Advance Broiler	Nashua	20.00	20.6	4.00	4.7	4.00	3.9
Blue Seal Standard "16" Dairy Ration	Lisbon	16.00	17.0	3.00	3.9	9.00	7.8
Blue Seal Sulfaquinoxaline Mixture	Laconia	20.00	23.6	3.00	2.7	4.00	4.1
Blue Seal Super All-Mash Growing Ration	Lisbon	16.00	16.1	3.00	4.1	4.00	3.5
Blue Seal Super Mash	Laconia	20.00	21.7	3.50	4.2	4.00	3.6
Blue Seal Turkey Growing	Nashua	20.00	22.8	4.00	4.3	4.50	4.2
Whitmoyer Laboratories Inc.							
Myerstown, Pa.							
C L O Meal	Keene	40.00	39.7	10.00	13.6	3.75	2.9
Gro-Tein	Keene	42.00	43.3	6.00	11.7	5.50	0.3
Whitmoyer Laboratories, Ltd.							
Yarmouth, N. S., Canada							
Whitmoyer Quality Fish Meal	Keene	59.00	60.5	1.00	4.5	2.00	0.4
Whitmoyer Quality 56% Fish Meal	Manchester	56.00	61.4	6.00	13.3	1.50	0.1

* Protein and fat not less than, crude fiber not more than.
\+ Unregistered when sampled.
** Bulk.

TABLE II — MIXED FEEDS AND INGREDIENTS — Concluded

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Winslow & Keniston Inc.							
Concord, N. H.							
Win-Ken Breeder	Concord	22.00	21.2	3.00	4.9	7.00	4.7
Win-Ken Fore Runner	Concord	20.00	21.9	3.00	4.6	4.50	3.8
Win-Ken Hi-Efficiency Breeder	Concord	16.00	16.7	3.00	4.3	4.00	3.8
Win-Ken Hi-Efficiency Breeder	Concord	16.00	16.9	3.00	4.2	4.00	4.0
Win-Ken Hi-Efficiency Grower	Concord	16.00	16.4	3.00	4.4	4.50	3.8
Win-Ken Nitrophenide Mixture in Fore Runner	Concord	20.00	20.9	3.00	3.9	4.50	3.8
Win-Ken S-F Mash (Start-Finish)	Concord	15.00	16.3	3.00	4.7	6.00	5.1
Win-Ken S-F Mash (Pellets)	Concord	15.00	15.0	3.00	3.6	6.00	3.4
Wirthmore Feeds Co.							
Concord, N. H.							
Hygrade All Purpose Mash	Concord	18.00	18.1	3.00	3.6	6.00	4.6
Hygrade Breeder Mash	Concord	20.00	21.7	3.50	4.7	6.50	6.4
**Hygrade Chick Starter	Claremont	20.00	20.7	3.00	4.7	6.50	5.4
Hygrade Complete Grower	Concord	15.00	16.5	3.50	5.0	6.50	6.2
Hygrade Complete Layer	Concord	16.00	17.8	3.50	4.5	6.50	5.5
**Hygrade 16% Dairy	Merrimack	16.00	18.6	3.50	4.0	9.00	8.0
Hygrade 16% Dairy	Concord	16.00	18.6	3.50	4.0	9.00	8.0
**Hygrade 14 Fitting Ration	Nashua	14.00	18.4	3.50	3.8	9.00	7.8
Hygrade High Energy Layer	Concord	16.00	17.7	3.00	4.3	4.50	3.6
**Hygrade High Energy Layer	Claremont	16.00	17.6	3.00	4.5	4.50	3.4
Hygrade High Energy Layer	Concord	16.00	18.0	3.00	4.9	4.50	3.2
Hygrade Horse Feed	Concord	10.00	11.7	3.00	3.8	10.00	7.8
Hygrade Pig Feed	Concord	17.00	18.0	3.50	4.1	6.50	4.7
Hygrade Pig Feed	Concord	17.00	18.6	3.50	5.1	6.50	5.5
Hygrade Sulfaquinoxaline Mixture in Broiler Ration	Concord	20.00	20.6	3.00	4.7	4.50	3.9
Hygrade Sulfaquinoxaline Mixture in Chick Starter	Concord	20.00	19.2	3.00	4.8	6.50	5.4

* Protein and fat not less than, crude fiber not more than.
** Bulk.

The following products were unregistered by the New Hampshire Department of Agriculture at the time they were found exposed for sale, but samples were not drawn. (List supplied by the Feed Control Supervisor)

BnN CANNING COMPANY	GROVELAND, FLORIDA
BnN Dried Citrus Pulp	6-3-12
BREMCO ALFALFA MILLS	NEW BREMEN, OHIO
Medogreen Alfalfa Meal	17-1.5-27
DELAWARE MILLS	DEPOSIT, N. Y.
Delaware Dienestrol Diacetate and Nicarbazin Mix in Delaware Broiler Finisher	18-3-5
Delaware Worming Crumbles	16-2.5-6.5
FARM BUREAU ASSOCIATION	WALTHAM, MASS.
Farm Bureau Calf Grower	18-3.5-8
Farm Bureau Scratch Feed	10-2.5-4
Sulfaquinoxaline Mixture in Farm Bureau Complete Developer Mash	16-3.5-4.5
Farm Bureau Horse Feed	12-3.5-8
FORTUNE BAY PRODUCTS	FORTUNE, NEWFOUNDLAND
Fish Meal	60-9-2
GALESBURG SOY PRODUCTS COMPANY	GALESBURG, ILL.
Triple Value Brand 44% Protein Soybean Oil Meal	44-.5-7
GENERAL FOODS CORP. (POST CEREAL DIV.)	BATTLE CREEK, MICHIGAN
Burt's Cereal Feed	16-3-21
HARPER FEED MILLS	WASHINGTON, PA.
Harco Hi Energy Complete Laying with 3 Nitro	(mislabelled)
F. J. HIGGINS MILLING COMPANY	SCHUYLER, NEB.
17% Dehydrated Alfalfa Meal	17-1.5-27
W. L. HOGG, LTD.	MONTREAL, CANADA
Canadian Barley Feed	9.5-2-14
MONTMORENCY DISTILLERY, LTD.	BEAUPRE, CANADA
Corn Distillers Dried Grains	27-5-14.6
OGDEN GRAIN COMPANY	ONEONTA, N. Y.
Ogden Turkey Starter	28-3-7
Ogden Turkey Grower & Developer	20-3-8.5
Developer Grains	(mislabelled)
Sulfaquinoxaline Mixture in Ogden Complete Chick	20-3-7
RALSTON PURINA COMPANY	ST. LOUIS, MO.
Linseed Oil Meal	(mislabelled)
TRUDEAU & FRERES	VALLEYFIELD, OHIO
Corn Distillers Dried Grains	27-8-16
VAN IDERSTINE COMPANY	LONG ISLAND CITY, N. Y.
Vico Steamed Bone Meal	5-.5-3

Table III

CAT AND DOG FOODS

TABLE III — DOG AND CAT FOODS

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Albers Milling Co. **Kansas City, Mo.**							
Friskie's Dog Food	Manchester	10.00	10.1	2.50	4.1	1.00	0.6
Allen Products Co. **Allentown, Pa.**							
+Al Po Dog Food Beef & Beef By Products	Manchester	15.00	15.9	5.00	7.7	1.50	0.5
Al Po Dog Food Horsemeat Product	Manchester	14.50	16.0	2.00	4.9	1.50	0.3
E. W. Bailey Co. **Montpelier, Vt.**							
Bailey's Preferred Dog Food	Colebrook	24.00	27.3	7.00	8.7	5.00	2.5
Calo Dog Food Co. **Oakland, Calif.**							
Calo Cat Food	Manchester	10.00	11.4	2.00	3.5	1.00	0.8
Calo Dog Food Co. **W. Hanover, Mass.**							
Calo 100% Horsemeat	Manchester	15.00	15.6	3.00	8.1	1.00	0.2
Consolidated Foods Corp. **Chicago, Ill.**							
+Spunky Dog Food	Bristol	10.00	9.8	2.00	1.7	1.25	1.2
Consolidated Foods Inc. **Nashua, N. H.**							
+Friendly Dog & Cat Food	Nashua	8.00	9.1	1.50	0.8	2.00	1.4
Deep Run Packing Co. **Dublin, Pa.**							
+Big Bet Dog Food	Nashua	15.00	17.8	5.00	6.8	1.50	0.4
+Jeep Dog Food	Exeter	8.00	8.9	2.00	1.3	1.50	1.3
Delham Food Products **Brighton, Mass.**							
Kim's Dog Food	Manchester	18.00	17.2	5.00	12.4	0.50	0.1
John C. Dow Co. **Gloucester, Mass.**							
Dow's Crumpled Meal	Hillsboro	24.00	31.2	4.00	6.1	3.50	1.6
Dow's Crumpled Meal	Peterboro	24.00	28.0	4.00	5.4	3.50	1.6
Dow's Crunchy	Peterboro	21.00	23.2	2.50	3.7	2.00	1.1
Dow's Dog Biscuit	Peterboro	21.00	23.1	3.00	5.7	2.00	1.0
Doyle Packing Co. **Long Branch, N. J.**							
Stronghcart Dog Food	Manchester	8.00	10.2	2.00	2.7	1.50	1.3

* Protein and fat not less than, crude fiber not more than.
+ Unregistered when sampled.

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Eastern States Farmers Exchange							
W. Springfield, Mass.							
Eastern States Dog Feed	Dover	24.00	27.4	6.00	6.8	3.50	3.1
John W. Eshelman & Sons							
Lancaster, Pa.							
Eshelman Red Rose Dog Biscuit	Keene	20.00	24.2	2.00	2.8	3.00	3.3
Eshelman Red Rose Dog & Puppy Ration	Keene	23.00	24.2	7.00	7.6	4.50	3.9
Evans Industries							
Marion, Indiana							
Better Bite Dog Food	Manchester	14.00	14.0	4.00	4.0	0.50	0.5
Better Bite Dog Food (Horsemeat)	Tilton	14.00	13.7	4.00	4.1	0.50	0.4
Prime Horsemeat Pet Food	Manchester	8.00	9.8	2.00	1.2	1.50	0.7
Foodland, Inc.							
Cleveland, Ohio							
+Mrs. Lane's Cat Food	Epping	17.00	15.2	0.50	0.3	0.10	0.0
+Mrs. Lane's Dog & Cat Food	Epping	14.00	18.7	2.00	7.5	0.70	0.3
Food Products Co. of America							
Chicago, Ill.							
+Dog House Dog & Cat Food	Tilton	10.00	9.5	2.00	4.0	1.50	1.3
Gem Packing Co.							
Marion, Ind.							
+Gem Pet Food	Salem Depot	8.00	9.1	2.00	0.9	1.50	0.6
General Foods Corp.							
Boston 10, Mass.							
+Jack & Jill Cat Food	Tilton	14.00	17.6	0.25	0.3	0.25	0.1
Hartz Mountain Products							
New York 3, New York							
Dog Yummies	Manchester	26.00	32.2	3.00	7.7	6.00	2.6
Kennel Food Supply Co.							
Fairfield, Conn.							
K.F.S. All Beef Dog Food	Concord	15.00	15.0	5.00	8.6	2.00	0.3
K.F.S. Biscuit Bone Shaped	Concord	21.00	20.8	2.00	2.1	3.00	1.4
Marnat Packing Co.							
Bennettsville, S. C.							
Big Time Dog Food	Nashua	15.00	17.9	6.00	8.1	1.00	0.2
Massachusetts Canning Corp.							
Brighton, Mass.							
Imp All Fish Cat Food	Manchester	14.00	16.1	0.50	0.5	0.10	0.1
Imp All Fish Cat Food	Nashua	14.00	16.1	0.50	0.4	0.10	0.0
Mack's Dog & Cat Food	Nashua	14.00	16.9	6.00	8.0	0.70	0.2

* Protein and fat not less than, crude fiber not more than.
+ Unregistered when sampled.

TABLE III — DOG AND CAT FOODS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
John Morrell & Co. **Chicago, Illinois**							
—Morrell Dog Food — Red Heart — Beef Flavor	Nashua	10.50	11.1	2.50	3.2	1.00	0.6
Old Mother Hubbard Dog Food Co. **Gloucester, Mass.**							
Old Mother Hubbard All Breed Dog Food	Keene	10.00	11.0	2.00	3.9	1.00	0.4
Old Mother Hubbard Fish Cat Food	Dover	15.50	16.9	0.25	0.3	1.00	0.1
Orleans Canning Co. **Chicago, Illinois**							
Orleans Dog Food	Manchester	15.00	16.0	3.00	12.3	1.50	0.1
Park & Pollard Co., Inc. **Buffalo, N. Y.**							
Munchy Dog Food	Colebrook	26.00	27.6	6.00	6.1	4.50	2.8
T. Passarini Co. **Newton, Mass.**							
+Golden Twin Cat Food	Nashua	17.00	15.3	2.00	0.4	1.00	0.1
+Golden Twins Fish and Liver Cat Food	Manchester	17.00	15.9	2.00	0.4	1.00	0.1
Quaker City Packing Co. **Allenstown, Pa.**							
Quaker City Beef Dog Food	Nashua	13.00	11.8	9.00	10.4	1.00	0.2
Radio Foods Corp. **Lawrence, Mass.**							
+Radio Dog Food	Manchester	7.00	9.2	2.00	3.6	1.50	1.0
Ralston Purina Co. **St. Louis, Mo.**							
Purina Dog Chow-Kibbled Meal	Manchester	24.00	27.8	7.00	8.3	5.00	4.2
Re-Dan Packing Co. **Ozone Park, L. I., N. Y.**							
Cadet Dog Food	Boscawen	8.00	9.8	2.00	4.3	1.50	1.1
Spratts Patent, Ltd. **Newark, N. J.**							
Spratts Assorted Dog Biscuits	Manchester	21.00	21.5	3.00	3.6	1.00	1.7
+Spratts Bonio Dog Food	Manchester	20.00	19.4	2.00	2.3	1.50	0.9
Spratts Cat Food	Manchester	20.00	21.7	2.00	3.3	1.50	0.7
+Spratts Charcoal Ovals	Manchester	20.00	18.0	3.00	3.2	4.50	5.1
+Spratts Complete Dog Dinner	Manchester	10.00	10.2	4.00	5.9	1.50	1.5

* Protein and fat not less than, crude fiber not more than.
+ Unregistered when sampled.

TABLE III — DOG AND CAT FOODS — Concluded

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Swift & Co. **Chicago, Ill.**							
+Pard's Swift's Dog Food	Manchester	10.50	10.6	2.50	5.7	1.00	0.5
Timerson Canning Co., Inc. **Fair Haven, N. Y.**							
Timco Dog & Cat Food	Hill	12.00	12.0	2.50	7.5	1.25	1.0
Usen Canning Co. **Boston, Mass.**							
Cop-E-Cat All Fish Cat Food	Manchester	16.00	16.2	0.30	0.3	0.30	0.1
Tabby All Fish Cat Food	Nashua	16.00	16.4	0.30	0.3	0.30	0.1
Wilson & Company **Chicago, Ill.**							
Ideal Dog Food	Dover	10.00	9.4	2.00	4.1	1.00	0.7

* Protein and fat not less than, crude fiber not more than.
+ Unregistered when sampled.

The following products were unregistered by the New Hampshire Department of Agriculture at the time they were found exposed for sale, but samples were not drawn. (List supplied by the Feed Control Supervisor.)

ATLAS CANNING COMPANY	GLENDALE, L. I., N. Y.
Laddieboy Dog & Cat Food	9-2-15
BATTLE CREEK DOG FOOD COMPANY	BATTLE CREEK, MICH.
Miller Nifties	16-.9-1.8
CONSOLIDATED FOODS CORP.	CHICAGO, ILL.
Spunky All Fish Cat Food	15-2.5-1
Spunky Dog Food	10-2-1.25
EVANS INDUSTRIES	MARION, IND.
Bostonian Dog Food	8-2-1.5
FLAG PET FOOD CORP.	NEW YORK, N. Y.
Flag Pussy Cat Food	10-2-1
FOOD PRODUCTS CO. OF AMERICA	CHICAGO, ILL.
Captain Dog Food	17-3.5-1
GOOD EATIN' DOG FOOD CO.	PHILA, PA.
Dart Dog Food	8-1.5-1.5
KASCO MILLS	TOLEDO, OHIO
Kasco Dog Ration (Canned)	10-2-1.5
MASSACHUSETTS CANNING CORP.	BRIGHTON, MASS.
Bombo Dog Food	12-4-1
S. E. MIGHTON CO.	BEDFORD, MASS.
Doggie Dinner for Dogs & Cats	10-2-1.5
Valor Dog Food	10-2-1
100% Cat Food	8-1.5-1.5
JOHN MORRELL & CO. (RED HEART DIV.)	OTTUMWA, OHIO
Red Heart Dog Food (all three flavors)	10.5-2.5-1
NATIONAL PET FOODS INC.	BUFFALO, N. Y.
Beau Dog Food	12-4-1
PERK DOG FOOD CO.	CHICAGO, ILL.
Beau Dog Food	10-2-1.5
RADIO FOODS CORP.	LAWRENCE, MASS.
Radio Dog & Cat Food	9-1.5-1
RED & WHITE CORP.	CHICAGO, ILL.
Kenilworth Brand Dog Food Kibbled Ration	21-3-2
Kenilworth Brand Dog Food Meal	24-6-5
STANDARD BRANDS INC.	NEW YORK, N. Y.
Walter Kendall Hunt Club Dog Biscuits	20-4.2-3.5
Walter Kendall Hunt Club Kennel Pack Biscuits	22-2-3
Walter Kendall Hunt Club Kibbled Dog Food	20-4.2-3.5
Walter Kendall Hunt Club Kennel Pack Kibbled Dog Food	22-2-3
Walter Kendall Hunt Club Puppy Starter & Growing Food	25-4-.3.5
TIMERSON CANNING CO.	FAIR HAVEN, N. Y.
Timco Cat Food	12-2.5-1.25

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